



High Performance Milling Train HPM

Technical Datasheet

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HPM - the solution for repairing damaged rails in local and long-distance traffic. The rail is reprofiled, reworked and tested in a single operation. Combined with the efficient extraction system, practically no chips remain in the track. During reworking with the innovative face milling technology, no dust or sparks are generated.

General Data	
Dimensions	
Length	total over buffers 61.70 m
Maximum width	2,610 mm
Maximum height	3,940 mm
Vehicle restriction	GE/RT8073 W6A, UIC 503
Track gauge	1,000 - 1,668 mm
Homologations	Rail-bound construction and maintenance vehicle according to EN 14033, Category 3
Speed	
Max. feed speed	2,000 m/h (technical 3,000 m/h)
Driving speed	max. 120 km/h, not self-propelled
Weight	
Tare weight	210 t
Overall weight	240 t
Maximum wheelset load	225 kN
Weight per meter	max. 4 t/m
Brake	indirect air brake, direct air brake, parking brake, emergency brake
On-board systems	
Emission standard	Euro IIIB
Feed drive	4 x 35 kW
Diesel tank	3,600 l
Quality monitoring systems	integrated monitoring possible
Diesel generators with particulate filter system, intelligent energy management system	
Power electronics with train line	
Hydraulic equipment	
Integrated eddy current testing system, preparation for integrated longitudinal and transverse profile measuring system (after machining)	

Milling Process	
Installed performance	1.077 kW
Self-propelled diesel-electric	
Milling capacity nominal	1.5 mm removal at 1,200 m/h
Removal per crossing	max. 3 mm, min. 0.3 mm
Roughness	< 3 µm
Tool change	vehicle interior
Crew	3 workers
Collection of removed material	extraction system
Capacity	16 m ³
Minimum machining radius	200 m

Infrastructure Data	
Machinable rails	Vignoles according to EN 13674-1, no switch machining
Minimum machining radius	200 m
Inclination	40 ‰

Climatic Conditions	
Ambient temperature milling mode	-15 °C to +40 °C

Milling Units	
Number of milling units	2
Grinding unit finish	optional
Working direction	1