



**SCHWEER**bau

Highest performance, high precision, no sparks and no dust with ...

## High performance rail milling machine HSM

- Preventive and Corrective milling
- Removing of rolling contact fatigue (e.g. head check, squat) - near-surface and deeper defects
- Removing of periodical defects in longitudinal profiles (e.g. short pitch corrugation, short wave corrugation) and of transverse profile deformations (e.g. flattened profiles, lipping)
- Removing of surface damages (e.g. ballast imprints)
- Rail machining for acoustic reasons
- Milling of new rails
- Milling of rails on bridges and in tracks with contact rail





## Technical details:

Length over buffers	51.90m
Width	2.57m
Height above top of rail	3.80m
Total weight	190t
Number of wheel sets	12
Number of bogies	6
Axle load	< 14t
Wheel diameter	0.92m
Track gauge	1.435m
Engine power	750kW
Self-propelled travel speed	100kph
Minimum curve radius	150m
Clearance diagram	G1 (UIC 505-1), W6A
Fuel tank capacity	4,000l
Milling method	Fully automated and computer controlled milling; free of dust, sparks and interference with the clearance gauge
Milling units	4 milling units, Ø 1.40m
Operating speed	800 – 3,000m/h
Performance	up to 3,000m/h with 0.5mm metal removal up to 2,000m/h with 1.0mm metal removal Finished track in one pass
Minimum metal removal	0.2 – 0.3mm per unit
Working area	87° (gauge side) – 6° (field side)
Chip collection	Chips are sucked off directly at the milling tool and conveyed to a chip container
Measuring systems	Transverse and longitudinal rail head profile measuring systems, eddy current system
Minimum working radius	150m
Maximum track gradient	40‰



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