



## RAIL GRINDING MACHINE

# RGM 2-16

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The rail grinder RGM 2-16 is a rail-borne machine which is consisted of two wagons and has 16 grinding motors with independant angular adjustment. Each of the spindles is driven by a frequency-controlled electrical motor. The computer monitored grinding process is controlled with touch pad by the operator inside of the cabin.

The rail grinder ist equipped with an online-measuring system. The digital measuring data for transverse and longitudinal profile are automatically and continuously collected, evaluated an saved.

The rail grinder RGM 2-16 can be used for removing of rolling skin, the elimination of rail corrugations (grooves) and short waves on the rail head as well as for the reprofiling of the rail head. The grinder is efficient for working in the open and closed scopes of long rail sections for winning the transverse and longitudinal target profile as well as for machining of turnouts.

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# Technical data of the rail grinder RGM 2-16

Length .....	24.510 mm
Breadth .....	2.600 mm
Height .....	3.700 mm
Weight .....	65,0 t
Gauge .....	1.435 mm
Axle load (rail) .....	max. 11 t
Minimum curve radius .....	travelling: R40 m grinding: R50 m
Numbers of grinding motors .....	16
Speed of cup stones .....	max. 5850 rpm, infinitely variable by integrated frequency converter
Max. grinding angle .....	-25° outside of the rail (field side) +70° inside of the rail (gauge side)
Operation .....	- computer monitored grinding process - grinding in both directions - 100 grinding programs
Propulsion .....	electric / optional: hydraulic
Modification of grinding angles .....	electromechanical control
Feeding mechanism for grinding stone .....	electromechanical control
Horizontal grinding stone adjusting .....	electromechanical control
Rail travel speed .....	65 km/h (max. 80 km/h)
Grinding speed .....	0,5 to 12,0 km/h
Maximum slope .....	70 ‰
Vaccum power for grinding dust collection ..	4 x 12.500 m <sup>3</sup> /h
Water tank .....	2x 600 liter
Protections .....	- spark shields continuously adjustable - particle-emission filter for exhaust gases - auto fire extinguishing system
Options .....	- for transverse profile in accordance to EN13231 - for longitudinal profile in accordance to EN13231 - for online roughness measuring in accordance to EN13231
Maintainability.....	- COMMAND online assistant 24/7

## DEVELOPMENT - DESIGN - MANUFACTURING - SALE - SERVICE

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