



## RAIL GRINDING MACHINE

# RRGM 1-20

L & S Luddeneit und Scherf GmbH  
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The rail grinder RRG 1-20 is a rail-road going machine. The machine has 20 grinding motors with independent angular adjustment. They are driven by 7,5 to 15 kW frequency-controlled electrical motors. The computer monitored grinding process is controlled with touch pad by the operator inside of the cabin.

The rail grinder 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 reprofiling of the rail head.

The grinder RRG 1-20 is efficient for working in the open and closed scopes of long rail sections for winning the transverse and longitudinal target profiles as well as for automatic machining of obstacles and turnouts through adequate pre-program of local conditions.

Insertion time on rail: approx. 12 minutes  
Discharging time of rail: approx. 8 minutes

# Technical data of the rail grinder RRGM 1-20

Length .....	15.670 mm
Breadth .....	2.340 mm
Hight .....	3.210 mm
Weight .....	34 t
Gauge .....	1000 to 1524 mm
Axle load .....	max. 8,5 t
Minimum curve radius .....	Travelling: R35 m Grinding: R40 m
Numbers of grinding motors .....	20
Power of grinding motors .....	7,5 to 15 kW per motor
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 - availability of 100 grinding programs - grinding in both directions
Modification of grinding angles .....	electro mechanical control
Feeding mechanism for grinding stone .....	electro mechanical control
Horizontal grinding stone adjusting .....	electro mechanical control
Road travel speed .....	80 km/h
Rail travel speed.....	40 km/h
Grinding speed .....	max. 1,5 to 3,5 km/h
Maximum slope .....	70 ‰
Vacuum power for grinding dust .....	4 x 7,5 kW volumetric flow rate 19.800 m <sup>3</sup> /h
Water tank .....	600 litres / +500 litres
Protections .....	- vertical adjustable spark shields - particle-emission filter for exhaust gases

## DEVELOPMENT – DESIGN – MANUFACTURING – SALE – SERVICE

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