



RAIL GRINDING MACHINE

# RGM 1-10

L & S Luddeneit und Scherf GmbH  
Wimmlerstraße 25  
D-07806 Neustadt an der Orla  
GERMANY

[www.l-und-s.de](http://www.l-und-s.de)

Tel.: +49-36481-5645-0  
Fax: +49-36481-5645-19



The rail grinder RGM 1-10 is a rail-borne machine which has 10 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 RGM 1-10 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 open and closed track in accordance to EN13231 for the transverse and longitudinal target profile as well as for machining in turnouts.

LUDDENEIT UND SCHERF GMBH

# Technical data of the rail grinder RGM 1-10

Length .....	17.100 mm
Width .....	2.600 mm
Height .....	3.510 mm
Weight .....	46 t
Gauge .....	1.435 mm
Axle load (rail) .....	max. 12 t
Minimum curve radius .....	travelling: R40 m grinding: R50 m
Numbers of grinding motors .....	10
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 .....	<ul style="list-style-type: none"> <li>- computer monitored grinding process</li> <li>- grinding in both directions</li> <li>- 100 grinding programs</li> </ul>
Modification of grinding angles .....	electromechanical control
Feeding mechanism for grinding stone .....	electromechanical control
Horizontal grinding stone adjusting .....	electromechanical control
Rail travel speed .....	60 km/h (max. 65km/h)
Grinding speed slow .....	0,5 to 4,0 km/h
high .....	4,0 to 12,0 km/h
Maximum slope .....	70 %
Vaccum power for grinding dust collection ..	2 x 12.500 m <sup>3</sup> /h
Water tank .....	2x 600 liter
Protections .....	<ul style="list-style-type: none"> <li>- spark shields continuously adjustable</li> <li>- particle-emission filter for exhaust gases, Euro Stage V</li> <li>- auto fire extinguisher</li> </ul>
Online Measuring Equipment .....	<ul style="list-style-type: none"> <li>- for transverse profile in accordance to EN13231</li> <li>- for longitudinal profile in accordance to EN13231</li> <li>- online Roughness Measuring in accordance to EN13231</li> </ul>
Special Performance:.....	<ul style="list-style-type: none"> <li>- automatic turnout grinding</li> </ul>
Maintainability .....	<ul style="list-style-type: none"> <li>- COMMAND online assistance 24/7</li> </ul>

## DEVELOPMENT – DESIGN – MANUFACTURING – SALE – SERVICE

L&S Luddeneit und Scherf GmbH  
 Wimmlerstraße 25  
 D- 07806 Neustadt an der Orla - Germany

Tel.: +49 (0) 36481-5645-0  
 Fax: +49 (0) 36481-5645-19

LUDDENEIT UND SCHERF GMBH

