



## TURNOUT GRINDING MACHINE LRGM 1-6/ AM65 C



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The LRGM 1-6/ AM65 C is a turnout grinding machine with a **closed working platform (cabin)** for the machining of the rail head. It composes except the grinding unit also a generator so that no power cables has to be installed along the working site.

The grinder can be easily railed in and out with a ramp of a rail vehicle or by crane. The turnout grinder has 6 grinding spindles with independent angular adjustment. The machine can be equipped with an integrated laser measurement system for the analysis of the transverse and longitudinal rail head profile.

The LRGM 1-6/ AM65 C turnout grinding machine can be used for removing of the rolling skin, the elimination of rail corrugations (grooves) and short waves on the rail head as well as for the re-profiling of the rail head. The grinder is efficient for grinding of turnouts, machining of railroad crossings, grinding of welding, machining of taper rail and for winning the transverse and longitudinal target profiles in short rail sections. The detection and operation of obstacles and restricted areas in turnouts and diamond crosses is effected automatically.

The performances of LRGM 1-6/ AM 65 C meet the quality requirements of DB Ril 824 und EN 13231.

Rail-in time: approx. 10 minutes  
Rail-out time: approx. 5 minutes

# Technical data of the rail grinder LRGM 1-6 /AM65 C

Length .....	6.850 mm
Breadth .....	2.300 mm
Hight .....	max. 2.400 mm
Weight .....	4.300 kg + 3.200 kg
Gauge .....	1000 to 1524 mm
Minimum curve radius .....	travelling: 15 m grinding: 20 m
Numbers of grinding motors .....	6
Power of grinding motors .....	7,5 kW to 15 kW per motor
Speed of cup stones .....	max. 6000 rpm, infinitely variable by integrated frequency converter
Max. grinding angle .....	-30° outside of the rail (field side) +70° inside of the rail (gauge side)
Operation .....	- computer monitored grinding process - grinding in both directions - fixed and adjustable grinding programs - remote control for external program setting
Modification of grinding angles .....	electro mechanical control
Feeding mechanism for grinding stone .....	electro mechanical control
Horizontal grinding stone adjusting .....	electro mechanical control
Rail travel speed .....	10 km/h
Grinding speed .....	1,0 to 3,0 km/h
Maximum slope .....	70 ‰
Vacuum power for grinding dust .....	2 x 0,55 kW; volumetric flow rate 375 m <sup>3</sup> /h
Power of drive unit on rail .....	3,5 kW frequency converted 3-phase current motor
Electrical connection .....	400 V 32 A CEE connection; further connections of electrical machines are possible on the control board of the controlling system
Power supply .....	LRAM 65 generating set; 65 kW power output, 74 dBA
Lighting of working place .....	4 x 24V/70W halogen headlamp
Option .....	- modular extension of rail grinding units: 6 stones + 6 stones + n stones - integrated laser measurement system with storage function and real-time analysis - water tank (120l) with spray and cleaning system - particle-emission filter for exhaust gases
Protections .....	- spark shields - fire extinguisher - fire detection and fire suppression system - CO <sub>2</sub> indicator, CO indicator

## DEVELOPMENT – DESIGN – MANUFACTURING – SALE – SERVICE

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