



TURNOUT GRINDING MACHINE

LRGM 1-4/ AM35

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The LRGM 1-4/ AM35 is a turnout grinding machine for the machining of the rail head which 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 grinding machine has 4 grinding spindles with independent angular adjustment. They are driven by 7,5 to 15 kW frequency controlled electrical motors. The machine can be equipped with an integrated laser measurement system for the analysis of the transverse and longitudinal rail head profile.

The LRGM 1-4/ AM35 turnout grinder 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.

Rail-in time: approx. 10 minutes

Rail-out time: approx. 5 minutes

Technical data of the rail grinder LRGM 1-4 /AM35

Length	5.500 mm
Breadth	1.750 mm
Hight	max. 1.850 mm
Weight	1.750 kg + 1.850 kg
Gauge	1000 to 1524 mm
Minimum curve radius	travelling: R15 m grinding: R20 m
Numbers of grinding motors	4
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	-15° 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
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	1,1 kW; volumetric flow rate 375 m ³ /h
Power of drive unit on rail	1,4 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 35 generating set; 35 kW power output, 74 dBA
Lighting of working place	3 x 24V/70W halogen headlamp
Option	- integrated laser measurement system with storage function and real-time analysis - air-conditioned operator cabine - water tank (120l) with spray and cleaning system - particle-emission filter for exhaust gases
Protections	- spark shields

DEVELOPMENT - DESIGN - MANUFACTURING - SALE - SERVICE

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