TRACK AND TURNOUT GRINDER

LRGM 2-12

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The LRGM 2-12 is a turnout grinding machine for the machining of the rail head. The machine composes two coupled grinding units LRGM 1-6, each with 6 grinding spindles with independent angular adjustment. They are driven by 11 kW to 23 kW frequency controlled electrical motors. The grinding process is monitored automatically. The machine can be equipped with an integrated laser measurement system for the analysis of the transverse and longitudinal rail head profile.

The composite grinding machine is driven by a coupled generator so that no 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 LRGM 2-12 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 (CRIO):	approx. 10 minutes	Rail-in time (loading arm):	approx. 10 minutes
Rail-out time (CRIO):	approx. 5 minutes	Rail-out time (loading arm):	approx. 5 minutes

Technical data of the rail grinder LRGM 2-12

Length	3.600 mm + 6.750 mm
Breadth	2.100 mm
Hight	max. 2.400 mm
Weight	3x 3.5 t
Gauge	1000 to 1524 mm
Minimum curve radius	transport: 15 m grinding: 20 m
Numbers of grinding motors	12
Power of grinding motors	11 kW to 23 kW per motor
Speed of cup stones	max. 6000 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	each grinding wagon 2 x 1,5 kW; volumetric flow rate 345 m^3/h
Power of drive unit on rail	3,5 kW frequency converted 3-phase current motor per wagon
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; 110 kW power output, 74 dBA
Lighting of working place	6 x 24V/70W halogen headlamp
Option	- integrated laser measurement system with storage function and real-time analysis - air-conditioned operator cabine - water tank (2 x 120l) with spray and cleaning system - particle-emission filter for exhaust gases
Protections	- spark shields

DEVELOPMENT – DESIGN – MANUFACTURING – SALE – SERVICE

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