RGH C 20
Track and turnout grinding machine
With two-axle center carriage

Special features

• Automotive 20 motor (stone) rail grinding machine for the removal of rail surface defects, removal of damages due to material fatigue caused by rolling contact or by the low-carbon rail edge areas resulting from the rail production rolling process and for rail head profiling
• For use in tracks and turnouts, intersections and level crossings without the need to dismantle any equipment
• Two identical systems with 10 grinding units each, doubled safeguarding of grinding performance and operability
• Each grinding head – consisting of a hydro motor, a spindle-bearing-unit and a grinding disc – is mounted and controlled independently allowing 10 different facets to be ground in one passing over the rails
• Grinding angle, lateral position as well as set position are entirely programmed as grinding sequences
• Grinding pressure individually selectable for each grinding disc
• The admissible angle range is 75° on the inside of the rail up to 45° on the outside of the rail, measured vertically
• Dust collection system in both grinding carriages
• Rail profile measuring system

Technical Data

• Gauge width 1,435 mm
• Total length grinding train + center. carr. 41,738 mm
• Width 2,629 mm
• Height over top of rail 3,928 mm
• Total operating weight 122,45 t
• No. of axles 10
• Max. axle load 15 t
• Max. speed (autom./transp.) 100 km/h
• Positioning length before grinding start 60 m
• Operating noise (25 m distance) 73 dBa

Characteristic grinding values

• Grinding speed 3–8 km/h
• Grinding directions 2
• Torque of grinding motor 5,500-6,000 min-1
• Grinding motor power output 17 kW
• Cup wheel (16 pieces) Ø 152 mm
• Disc wheel (4 pieces) Ø 280 mm

Other

• Integrated fire extinguishing system
• Integrated dust collection system with fan (generating air stream of approx. 8,000 m³/h)