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Diagnostic vehicle for rail non-destructive testing



- Independent traction diagnostic vehicle exploiting the latest modern technologies for railway infrastructure diagnostics
- Two-unit configuration vehicle: measuring and service section
- Non-destructive measurement of rail defects ultrasonic and eddy current technologies, video inspection
- Evaluation station evaluating measured data directly on the vehicle diagnostic control room
- The ability to carry out continuous measurements of the railway track over a period of several days
- Specially developed software solution intended for storage, transmission and evaluation of measured data and their archiving in the diagnostics data warehouse (DSD)
- Comprehensive facilities for diagnostic vehicle staff living compartment, sanitary facilities, kitchen, presentation room

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Diagnostic vehicle for rail non-destructive testingy DV NDT

Technical specification of the DV NDT vehicle

- Track 1 435 mm 120 km/h Maximum operating speed 0 – 70 km/h Measuring speed according to the UIC 505-1 standard Rail vehicle outline Curve clearance 150 m Total weight 128 000 kg (2x 64 000 kg) > Weight per axle 16 000 kg 50 360 mm Vehicle length over bumpers 2 800 mm Maximum width Maximum height 4 265 mm > Vehicle wheelbase 17 200 mm Bogie wheelbase 2 600 mm > Wheel diameter 920 mm 2x VOITH RailPack R2876 T3-390 Traction system Brake system Knorr-Bremse
- Technology
- Ultrasonic rail inspection system
- Video inspection system for rail passes
- > Eddy current contact fatigue defect inspection system
- Frontal photo track sensing system
- > Track locating system for precise positioning of measured points
- > Dispatcher's evaluation station for measured defects
- Automated data transfer to the diagnostics data cluster

Internal layout of the DV NDT diagnostic unit

Measuring section:

Engine driver's cab – Entrance area – Workshop – Technological area with switchboards – Measuring workstation (control room) – Conference room – Technological area with water tanks – Sanitary facilities – Warehouse

Maintenance section:

Engine driver's cab – Boarding area – Technological area with switchboards – Kitchenette – 4x living compartment – Technological area with water tanks – Restroom – Warehouse



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