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THE SMART SOLUTION

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Measuring car for railway superstructure diagnostics

MVŽSv2

- Specialized diagnostic wagon equipped with modern technologies for railway track diagnostics, equipped with systems designed for measuring, recording and localization of track and rail defects at speeds up to 200 km/h
- The wagon is capable of continuous measurement of the railway track over a period of several days
- The wagon comes with comprehensive facilities for diagnostic staff: workplace, bedroom, toilet, kitchen and presentation room
- The wagon is equipped with a system for linking diagnostic data to the Diagnostic Data Storage (DSD), with the possibility of interpreting the measured data to improve rail safety and reliability

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Measuring wagon MVŽSv2

Technical specification

Gauge	1 435 mm
Outline	UIC 505-1
Curve clearance	150 m
Maximum speed	200 km/h
Maximum speed in measurement mode	200 km/h
Wagon length over bumpers	26 400 mm
Width of wagon body	2 825 mm
Wagon body height above top of rail	4 050 mm
Bumper height above top of rail	1 060 mm +5 mm
Coupling height	1 040 mm +5 mm
Floor height above top of rail	1 255 mm
Distance of pivots	19 000 mm
Bogie wheelbase	2 560 mm
Wheelset diameter	920 mm
Brake disc diameter	610 mm
Tied rod assembly	according to UIC 520 standard
Buffing gear	according to UIC 528 standard

Technology

- System for measuring track geometric parameters
- System for measuring rail cross-section and rail wear
- Measurement system for microgeometry (waviness) of rail heads
- Lateral and vertical acceleration measurement system
- System for measuring the transverse profile of the track bed and the axial distances between the running track and adjacent tracks
- Spatial clearance system