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Measuring trolley for railway superstructure diagnostics EM100

- Diagnostic motor wagon of independent traction, the running gear of which consists of two double-axle bogies; the wagon is equipped with systems for measuring, recording and locating rail defects at speeds up to 100 km/h
- The wagon is capable of continuous measurement of the railway track over a period of several days
- The wagon is equipped with a system for linking diagnostic data to the Diagnostic Data Store (DSD), with the possibility of interpreting the measured data to improve rail safety and reliability

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Measuring trolley EM100

Technical specification

▶ Gauge	1 435 mm
▶ Overall length	19 600 mm
▶ Overall width	2 950 mm
▶ Maximum height above top of rail	3 900 mm
▶ Axle spacing on bogey	2 500 mm
▶ Bogey centre distance	12 000 mm
▶ Wheel diameter	850 mm
▶ Total weight	50 t
▶ Axle load	14 t
▶ Towing capacity	55 t (up to 40 ‰)
▶ Max. speed (self-traction)	100 km/h
▶ Max. speed (with train transport)	100 km/h
▶ Max. measuring speed	100 km/h
▶ Minimum radius of curve	90 m
▶ Railway vehicle contour	UIC G1, UIC 505-1, ČSN EN 15273-2+A1

Technologie

- ▶ Geometric Parameter Measurement System (GPK)
- ▶ Rail Cross-Section and Rail Wear Measurement System

