



TRACKSCAN CADD-E

TRACK CART WITH LASER AND INERTIAL TECHNOLOGY TO MEASURE TRACK GEOMETRY AND RAIL WEAR

The Trackscan Cadd-e is a state-of-the-art, self-propelled cart designed for precise measurement of track geometry and rail wear. Utilizing cutting-edge laser and inertial technology, it delivers unparalleled accuracy in assessing both vertical and horizontal alignment at speeds up to 16 km/h, enhancing efficiency compared to traditional methods. A standout feature is its real-time display of measurement results on the operator's monitor, allowing for swift analysis and decision-making.

TECHNICAL DATA

SPECIFICATIONS

Measured parameters		
Railhead cross sections	Accuracy of mapping: ± 0.3 mm	
Track gauge	Accuracy: ± 1 mm	Measurement range: $-15 \dots +50$ mm
Cant	Accuracy: ± 1.5 mm	Measurement range: ± 225 mm
Horizontal irregularities (Alignment)	Accuracy: $\pm 1,5$ mm/10 m	Measurement range: ± 50 mm
Vertical irregularities (Longitudinal)	Accuracy: ± 1 mm/10 m	Measurement range: ± 50 mm
Calculated parameters		
Twist	Accuracy: ± 3 mm	
Gradient	Accuracy: ± 1.0 mm	
Railhead wear	Accuracy of mapping: ± 0.3 mm	
Measuring increment	0.25 m	
Types of rails	Vignol or groove	
Dimensions (L x H x W)	2 860 x 1 600 x 1 620 mm	
Weight	~ 280 kg	
Memory capacity	Up to 56 000 km	
Operation range with one battery	Up to 60 km	
Resolution	0.1 mm	
GPS location	Accuracy: ± 5 m	
Operating conditions	Temperature: $-20 \dots +45$ °C	
	Humidity: 15 ... 85 %, no condensation	

CONTENTS

- Trackscan Cadd-e
- Battery with charger
- Dedicated laptop
- Measuring system calibrator
- Trackgauge Solar
- Dari® software, one license
- Optional batteries for longer distances

BENEFITS

- Enhanced Measurement Speed: Operates at a swift 16 km/h, enhancing efficiency compared to traditional walking speeds on track
- Extended Operation Range: Capable of measuring up to 60 km on a single battery charge, with a vast memory capacity to store data for up to 56 000 km
- Advanced Laser Technology: Achieve flawless rail profile measurements and detailed rail head wear evaluation
- Integrated GPS: Log measurement coordinates with pinpoint accuracy for seamless track mapping
- Visual Inspection: Capture and document inspection results effortlessly for in-depth track evaluation
- Dependable Data Accuracy: Maintain measurement integrity in all environmental conditions
- Versatile Gauge Solutions: Available for the standard 1435 mm gauge, with custom gauges available upon request
- Comprehensive Software Suite: Export data to various formats like MS Excel, MS Word, PDF, DXF, and CSV for extensive analysis and in-depth reporting including an additional software module for the analysis of rail profiles



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