GOLDSCHMIDT
Smart Rail Solutions

TRACKSCAN SWITCH PROFILE

MEASUREMENT OF SWITCH AND CROSS PROFILE AS WELL AS TRACK GEOMETRY

The Trackscan Switch Profile, is a state-of-the-art measuring device meticulously engineered for the precise assessment of railway track and switch geometry. Specifically designed to measure rail cross profiles and wing wear, this innovative tool allows users to define characteristic switch points for detailed analysis. Advanced laser technology ensures accurate rail profile measurements and detailed evaluations of rail head wear, setting a new standard in rail infrastructure assessment.

TECHNICAL DATA

SPECIFICATIONS

Measured parameters		
Railhead cross sections	Accuracy of mapping ±0.3 mm	
Track gauge	Accuracy: ±0.5 mm	Measurement range: -15 ... +50 mm
Cant	Accuracy: ±1.5 mm	Measurement range: ±200 mm
Horizontal irregularities	Accuracy: ±0.2 mm / 1 m	Measurement range: ±5 mm
Vertical irregularities	Accuracy: ±0.2 mm / 1 m	Measurement range: ±2 mm
Left/right flangeways (groove)	Accuracy: ±0.5 mm	Measurement range: 35 ... 110 mm
Left and right check rail gauge	Accuracy: ±1.0 mm	Measurement range: 35 ... 110 mm
Calculated parameters		
Twist	Accuracy: ±3 mm	
Gradient	Accuracy: ±1 mm	
Railhead wear	Accuracy of mapping ±0.3 mm	
Measuring increment	0.25 m; 0.5 m in track geometry mode 31 mm in switch measurement mode	
Types of rails	Vignol or groove	
Dimensions (L x H x W)	1 850 x 870 x 1 300 mm	
Weight	34.3 kg	
Memory capacity	3 000 km	
Operating time	Up to 5 h	
Resolution	0.1 mm	
Operating conditions	Temperature: -20 ... +45 °C Humidity: 15 ... 85 %, no condensation	

CONTENTS

- Trackscan Switch Profile
- Batteries
- Chargers
- Transport boxes
- Dari® software, one licence

BENEFITS

- Comprehensive Rail and Groove Assessment: Combines advanced measurements of railhead cross sections, railhead wear, and left/right flangeways (groove) with the full standard measurement suite, offering detailed rail infrastructure assessment
- 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
- Clear Data Display: Guarantee data readability in all light conditions with a specialized display screen
- Uninterrupted Power: Ensure ongoing measurements with hot-swappable batteries for constant operation
- Swift Track Removal: Quickly remove the trolley from the track without disrupting the measurement session
- Versatile Gauge Solutions: Available for the standard 1 435 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

DARI

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