

GEDO TRACK

SLAB TRACK SURVEY WITH ELECTRONIC TRACK MEASUREMENT BAR

The system, based on the electronic Trimble GEDO Track Bar, is used in slab track and direct fix projects where a track measuring trolley cannot be used due to the construction process or very slow progress. It is a simply designed, integrated measuring system for high-precision track adjustment, inspection and quality control. The three-dimensional position of the track as well as the gauge and cant are recorded in a single step. The measured data is compared with the design data and the correction values are displayed on site to enable the construction teams to set up the track. The system can be used for high-speed lines as well as for light rail and subway projects.

TRIMBLE GEDO SYSTEMS

Trimble GEDO systems can be used for various applications in measuring, recording and analyzing track position and track quality, as well as for construction and maintenance activities. The instruments and software of the Trimble GEDO systems are specifically designed for the various surveying tasks on railway lines and simplify the work in the field and in the office. Using standard data formats, information can be exchanged with leading software products for track planning and track maintenance machinery.

SYSTEM CONFIGURATION

Electronic Trimble GEDO Track Bar

Electronic track measurement bar, equipped with sensors for measuring track gauge and cant. In combination with a Trimble control unit and a Trimble total station it forms the basis of this measurement system.

Trimble Access Rail module GEDO Track Bar ⁽¹⁾

Trimble Access based field software optimized for construction, track installation and control of slab tracks. Differences between current and design position for both rails are displayed simultaneously in the field according to the alignment.

Trimble GEDO Office

Import and preparation of design data and exchange with external systems.

Trimble GEDO Office module Rec

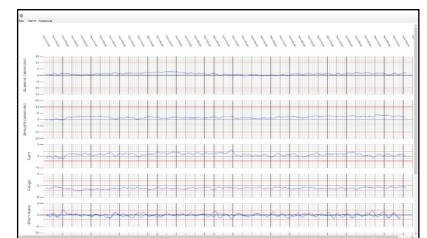
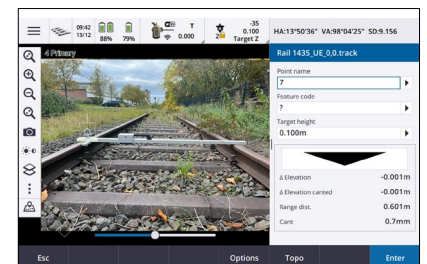
Software for processing and analysing measurements. In addition, the calculation of deviations from a target track position can be carried out.

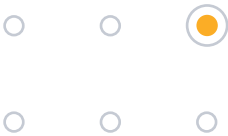
Trimble GEDO Office module Quality

Processing, analysis and verification of measurement data with reports for corrections and documentation for quality assurance.

Key Benefits

- ▶ Shortened construction time and reduced costs through immediate comparison with target data in the field
- ▶ Information on track adjustment for both rails with one measurement
- ▶ Recording of the three-dimensional track position, gauge and cant in one work step
- ▶ Support of all common elements of track design
- ▶ Support of special calculations (e.g. FAKOP® track head widening, load situation on bridges)
- ▶ Consistent data storage and standardized logging of correction values
- ▶ Easy handling with low weight of the electronic Trimble GEDO Track Bar





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GENERAL	
APPLICATIONS	
	Track installation and track control for slab track projects
PERFORMANCE	
Inner system accuracy	±0,3 mm
Position accuracy	< 1 mm
SYSTEM REQUIREMENTS	
Supported instruments ⁽¹⁾	Trimble S-series total stations (i.e. S7, S9) Trimble scanning total stations (i.e. SX10, SX12) Trimble GNSS systems (i.e. R10, R12, R12i) Trimble S9 HP is recommended
Controllers	Trimble TSC7, T7 and T100 controllers (Windows® OS) Trimble TSC5 (Android OS)
Trimble Access Version	2023.10 or above (for Windows OS) 2023.10 or above (for Android OS)
Software compatibility	Trimble Access Rail modules GEDO Track Bar and GEDO Track Trolley

TRIMBLE GEDO TRACK BAR	
Description	Electronic track measurement bar
Variants	1.435 mm track gauge Customer specific track gauges (760 mm up to 1.676 mm)
Weight	4,3 kg
GAUGE MEASUREMENT	
Range	-20 mm to +45 mm
Accuracy	±0,3 mm
CANT MEASUREMENT	
Range	±8°
Accuracy	±0,5 mm
BATTERY	
Type	Trimble S-Series Li-Ion, rechargeable
Life	> 20 h
COMMUNICATION	
Connection to control unit	Bluetooth®

⁽¹⁾ Analog to the support in Trimble Access



Specifications are subject to change without notice.

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