GEDO REC

GEODETIC TRACK SURVEY

The Trimble GEDO Rec track measurement system is a fast and efficient geodetic track surveying system to measure the position of existing tracks. In a single step, the threedimensional position of the track is recorded together with track gauge and cant. The data collected this way can be used in geoinformation systems, for design purposes and planning work during track reconstruction and for quality control.

TRIMBLE GEDO SYSTEMS

Trimble GEDO systems can be used for various applications to measure, record and analyze track position and quality, as well as for construction and maintenance work. Trimble GEDO instruments and software are designed specifically for various surveying tasks on railway lines, simplifying work procedures in the field and in the office. Using standard data formats, information can be exchanged with leading track design software products and track maintenance equipment.

SYSTEM COMPONENTS

Trimble GEDO CE 2.0

Track measurement trolley with sensors for measuring gauge and cant. In combination with a Trimble control unit suitable for use in the field, this forms the basis for a simple and fast acquisition of the most important parameters for assessing track quality. The track measuring trolley can easily be lifted off the track by one person before a train passes through.

Trimble GEDO Rec

Software for geodetic track survey utilizing the Trimble GEDO CE 2.0 track measurement trolley and a Trimble S-Series total station or Trimble GNSS receiver.

Trimble GEDO Office Modul Rec

Software for processing and analysing GEDO Rec measurements as well as data exchange with external systems. In addition, the calculation of deviations from a design track position can be carried out.

Trimble GEDO Office Modul Quality

Software to generate compliance reports ensuring conformity within track safety and quality parameters.

Trimble GEDO Office Modul Monitoring

Software for comparison of measurements from different epochs for track monitoring purposes and control of tamping work.

Trimble GEDO Profiler

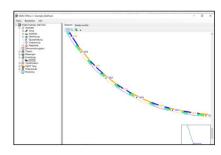
Laser measurement system with angle encoder for fast and accurate measurements of objects along the track. It can be used to check the track position at known positions and to measure distances to platforms and other fixed structures. The measurement can be purely relative to the current track position or in an absolute coordinate system. It is also possible to capture topo points

Key Benefits:

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- Measurement of three-dimensional track position, track gauge and cant, as well as calculation of twist in one step
- Measurement of long track sections possible without full track closure and impact on train traffic
- ► Total station or GNSS based data acquisition for reliable and accurate positioning
- Optimized field work procedures through consolidation of results in the office
- Travel chord evaluation for analysis of the relative track position
- Station setup on tripod or secondary
- Use of a universal track measurement trolley with modular expansion options









FOR TRACK AS-BUILT SURVEY

TRIMBLE GEDO CE 2.0 TRACK MEASUREMENT TROLLEY

GENERAL Application	entation of existing track am, metro, industrial lines
System accuracy with total station. with GNSS. ±	±1 mm in Stop&Go Mode 3 mm in Kinematic Mode ±2 cm to 4 cm
Performance with total station. with GNSS	
Measurement speed with total station: Supported total stations.	2,5 Hz (S5 and S7) 10 Hz (S8 and S9)
with GNSS	1 Hz RTK

Description. Gauges	00 mm, 1067 mm, 1435 mm, 1520 mm, 1524 mm, 1600 mm, 1668 mm
Gauge measurement RangeAccuracy	–20 mm to + 60 mm ±0.3 mm
Cant measurement	
Range	+10° or +265 mm
Range. Accuracy.	±0.5 mm (static)
Battery	(, , , ,
Type	Trimble S-Series Li-lon rechargeable
Type	8 to 10 hours
TRIMBLE CERC OF CORROSH ER	
TRIMBLE GEDO CE 2.0 PROFILER	

 weight
 3.5 kg

 Measurement range
 0.3 m to 30 m

 Typical accuracy for distance measurement
 ±1.5 mm

Operating system. Windows® Microsoft 10 Pro
Operation Touchscreen, Keyboard
Interfaces. USB, RS232, Bluetooth®, WLAN (802.11a/b/g/n)

TRIMBLE TSC7 CONTROLLER

	Operating system
	Life
T	TRIMBLE S9 TOTAL STATION Weight
	TRIMBLE R12 GNSS SYSTEM Interfaces
	CERTIFICATE On to 10 Specific Control Communication and the complete Control Control Communication and the complete Control Co
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Specifications subject to change without notice

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