

GEDO TRACK

GEODETC PRE-MEASUREMENT FOR TAMPING

The Trimble GEDO Track system is used for pre-measurement for track tamping work in case of small scale projects or for projects that require a geodetic measurement method. The three-dimensional position of the track as well as the track gauge and cant are recorded in a single work step. The Trimble Access module GEDO Track Trolley software provides an easy-to-use, fully integrated measuring system for geodetic track recording. Thanks to the geodetic resection method, the quality of the control points can be checked at the same time. Deviations from the target track position are displayed live in the field, as is information on the main points.

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

Trimble GEDO CE 2.0

Track measurement trolley with sensors for measuring gauge and cant. Together with a Trimble control unit suitable for use in the field, this forms the basis for the 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 Access Rail module GEDO Track Trolley

Software module integrated in Trimble Access for geodetic pre-measurement for track tamping work. Deviations of the actual track position from the target track position along the track are displayed during the measurement.

Trimble GEDO Office module Tamp

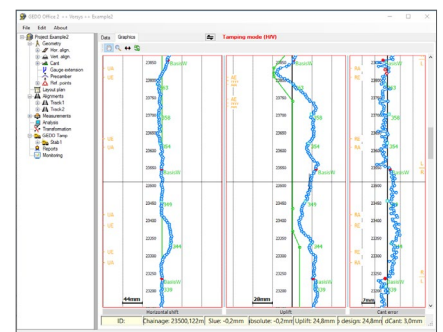
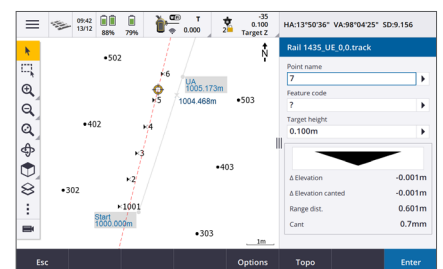
Software for preparing data for tamping machines. Ramps at the beginning and end of tamping and at constraint points can be created very easily. For data exchange with the machines, the formats of all well-known manufacturers are supported.

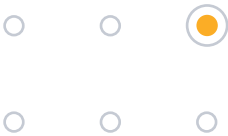
Trimble GEDO Office module Quality

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

Key Benefits

- ▶ Recording of the three-dimensional track position, track gauge and cant in a single work step with a universal track measuring trolley
- ▶ Precise and reliable control of the track geometry thanks to precise geodetic measuring method
- ▶ Easy to use and familiar method of measuring reference points
- ▶ Fast analysis and transfer of tamping data to the tamping machine and rapid quality report generation for construction companies
- ▶ Reduced time for documentation and acceptance measurement
- ▶ Import of digital alignment data and data validation before using it in the field
- ▶ Support for industry-standard formats and protocols





GEDO TRACK

GEODETIC PRE-MEASUREMENT FOR TAMPING

GENERAL	
APPLICATIONS	
	Pre- and post-tamping measurements of track with geodetic measuring method Acceptance measurement for the preparation of test reports
PERFORMANCE	
Inner system accuracy	±0,3 mm
Position accuracy	±1 mm in Stop&Go Mode ±3 mm in Kinematic Mode
Measurement frequency	1 Hz (Stop&Go Mode) 10 Hz (Kinematic Mode, Trimble S9 only)
Measurement speed	600 to 1.200 m/h
SYSTEM REQUIREMENTS	
Supported instruments ⁽¹⁾	Trimble S-series total stations (i.e. S7, S9) Trimble scanning total stations (i.e. SX10, SX12) Recommendation: Trimble S9 HP
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)

TRIMBLE GEDO CE 2.0	
Description	Track-mounted trolley (Extensions are possible)
Gauges	1.000 mm, 1.067 mm, 1.435 mm, 1.520 mm 1.524 mm, 1.600 mm, 1.668 mm, 1.676 mm (other gauges on request)
Weight	16,8 kg
GAUGE MEASUREMENT	
Range	-20 mm to +60 mm
Accuracy	±0,3 mm
CANT MEASUREMENT	
Range	±9° or ±235 mm at 1.435 mm track gauge
Accuracy	±0,5 mm (static)
BATTERY	
Type	Trimble S-Series Li-Ion, rechargeable
Life	6 - 8 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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