GEDO CE 2.0:
FOR TRACK DOCUMENTATION

The Trimble GEDO CE system is a fast, efficient tool to measure, record and document detailed information about existing track. With Trimble GEDO CE, you can quickly survey existing lines without the need for alignment data. In a single operation the Trimble GEDO CE captures the 3D coordinate position of the track, together with gauge and cant. The information can be used for GIS, redesign and quality control.

KEY BENEFITS

Simple, self-contained trolley captures track position, gauge and cant in a single operation

Measure long portions of track without disruption to normal rail traffic

Optical or GNSS positioning ensures confidence in location and track conditions

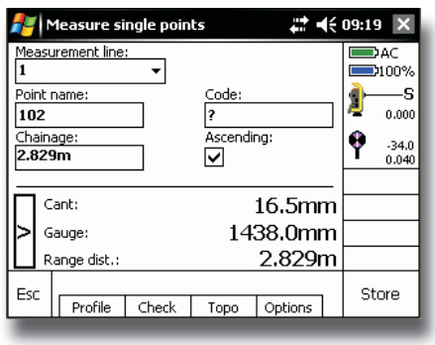
Fast operation reduces costs and crew size. Capture detailed information on up to 3,000 meters of track in one hour using GNSS, and more than 1,000 meters per hour with total stations

Optimize field work by merging results from multiple surveys

Export results to GIS and rail design software, and compare existing conditions to design alignment

THE TRIMBLE GEDO CE SYSTEM

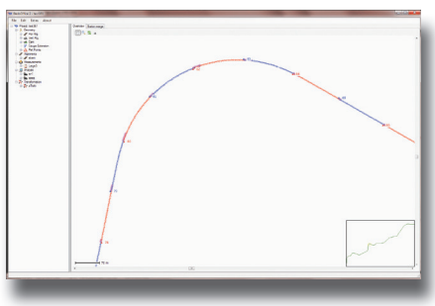
Trimble GEDO CE is a suite of tools for measurement, recording, analysis and applications for railway track location, construction and maintenance. Specially tailored for railway tasks and processes, Trimble GEDO CE hardware and software streamlines work in the field and office. The system uses standard techniques and data formats to share information with leading applications for railway track design and maintenance.



TOOLS FOR TRACK DOCUMENTATION

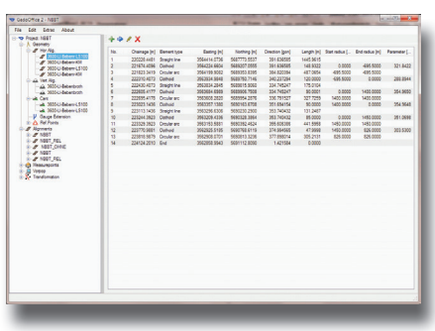
Trimble GEDO CE Trolley

A single operator can quickly and safely capture information to document existing track. Positioning is supplied by Trimble GNSS Receivers or Trimble S-Series Total Stations. The trolley is easily removed to stay clear of railway operations.



Trimble GEDO Rec

Field software optimized for track documentation and measurement. Trimble GEDO Rec runs on the Trimble TSC3 Controller.

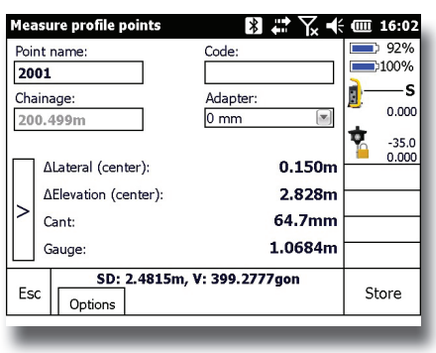


Trimble GEDO Office

Software for processing and analysis of field data, and for data exchange with external systems.

Trimble Profiler GEDO CE 2.0

Laser measurement unit to measure object close to the track, As-Built survey, platform gauging and clearance check. The measurement can be taken relative according to the track position or by using total station or GNSS absolute coordinates can be measured additionally.



Trimble

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FOR TRACK DOCUMENTATION

TECHSHEET

GENERAL

Application . . . . . As-built documentation of existing track
Main track, side track, tram, metro, industrial lines
System accuracy
with total station. . . . . ±1 mm* in Stop&Go Mode
±3 mm* in Kinematic Mode
with GNSS. . . . . ±2 cm to 4 cm
Performance
with total station. . . . . 600 to 1,200 m/hour
with GNSS. . . . . Up to 3,000 m/hour
Measurement speed
with total station: . . . . . 1 Hz (Stop&Go Mode)
10 Hz (Kinematic Mode)
with GNSS. . . . . 10 Hz Real-time Kinematic
Supported positioning sensors . . . . . Trimble S6 Total Station
Trimble S8 Total Station
Trimble GNSS receivers, including Trimble R8
and Trimble R7 GNSS systems

TRIMBLE GEDO CE 2.0 TRACK MEASURING

Description . . . . . Track-mounted trolley
Gauge . . . . . 1000 mm, 1067 mm, 1435 mm, 1520 mm, 1600 mm, 1668 mm
other gauges on request
Gauge measurement
Range . . . . . –20 mm to + 60 mm
Accuracy . . . . . ±0.3 mm
Cant measurement
Range . . . . . ±10° or ±265 mm
Accuracy . . . . . ±0.5 mm (static)
Weight . . . . . 16,0 kg
Battery life
Type. . . . . Trimble S-Series Li-Ion, rechargeable
Life . . . . . 6-8 hours

TRIMBLE TSC3 CONTROLLER

Operating system . . . . . Windows® Embedded Handheld 6.5 Professional
Operation . . . . . Touchscreen, Keyboard
Interfaces . . . . . USB, RS232, Bluetooth®, WiFi (802.11b/g)
Environmental Protection IP67; MIL-STD-810G
Temperature range . . . . . –30 °C to +60 °C
Weight . . . . . 1.04 kg
Battery
Type. . . . . 28.9 Wh Li-Ion
Life . . . . . 34 hours

TRIMBLE PROFILER GEDO CE 2.0

Weight . . . . . 3,5 kg
Measurement range . . . . . 0,3 m to 30 m
Typical accuracy for distance measurement . . . . . ±1,5 mm

* Depends on environment and setup.

Specifications subject to change without notice.

TRIMBLE AUTHORIZED DISTRIBUTION PARTNER

NORTH AMERICA
Trimble Navigation Limited
10368 Westmoor Dr
Westminster CO 80021
USA

EUROPE
Trimble Germany GmbH
Am Prime Parc 11
65479 Raunheim
GERMANY

ASIA-PACIFIC
Trimble Navigation
Singapore Pty Limited
80 Marine Parade Road
#22-06, Parkway Parade
Singapore 449269
SINGAPORE

Trimble®