



GEDO REC

FOR TRACK DOCUMENTATION

The System, based on the Trimble GECO CE 2.0 track measuring trolley, allows easy track control by measuring the basic quality parameters. The cant, track gauge and twist are measured depending on the chainage.

TRIMBLE GEDO SYSTEMS

Trimble GEDO systems can be used for various applications to measure, record and analyze the track position and quality, as well as for construction and maintenance work. Trimble GEDO instruments and software are designed specifically for the diverse surveying tasks on railway lines, simplifying work procedure 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 CONFIGURATION

Trimble GEDO CE 2.0

Track measuring 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 Trimble gEDO CE 2.0 track measuring trolley can easily be lifted off the track by one person before a train passes through.

Trimble GEDO Office

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

Trimble GEDO Rec

Trimble GEDO Office Module Rec

Trimble GEDO Office Module Tamp

Trimble GEDO Office Module Quality

Trimble GEDO Office

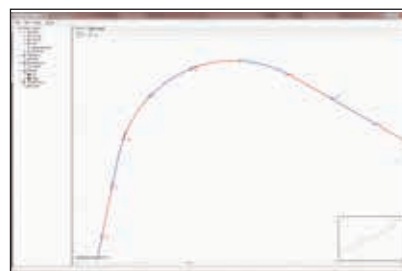
Module Monitoring

Trimble GEDO Profiler

Optional laser measuring unit for checking the track position at reference points and for measuring distances to structures and platforms.

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



Measure profile points		92%	100%
Point name:	Code:		
2001			
Chainage:	Adapter:		5
200.499m	0 mm		0.000
			-35.0
			0.000
ΔLateral (center):		0.150m	
ΔElevation (center):		2.828m	
Cant:		64.7mm	
Gauge:		1.0684m	
SD: 2.4815m, V: 399.2777gen			
Esc	Options		Store

FOR TRACK DOCUMENTATION

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, only S8 and S9)

with GNSS 10 Hz Real-time Kinematic

Supported positioning sensors: Trimble S5 Total Station
Trimble S6 Total Station
Trimble S7 Total Station
Trimble S8 Total Station
Trimble S9 Total Station
Trimble GNSS receivers, including Trimble R8
and Trimble R10 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
Weight 16.8 kg

Gauge measurement
Range -20 mm to + 60 mm
Accuracy ±0.3 mm

Cant measurement
Range ±10° or ±265 mm
Accuracy ±0.5 mm (static)

Battery life
Type Trimble S-Series Li-Ion, rechargeable
Life 8 to 10 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

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 -20 °C to +60 °C
Weight 1.04 kg

Battery
Life 34 hours

TRIMBLE TSC7 CONTROLLER

Operating System Windows® Microsoft 10 Pro
Operation Touchscreen, Keyboard
Interfaces USB, RS232, Bluetooth®, WLAN (802.11 a/b/g/n)
Environmental Protection IP68; MIL-STD-810G
Temperature range -20 °C to +60 °C
Weight 1.6 kg

Battery
Life up to 7 hours

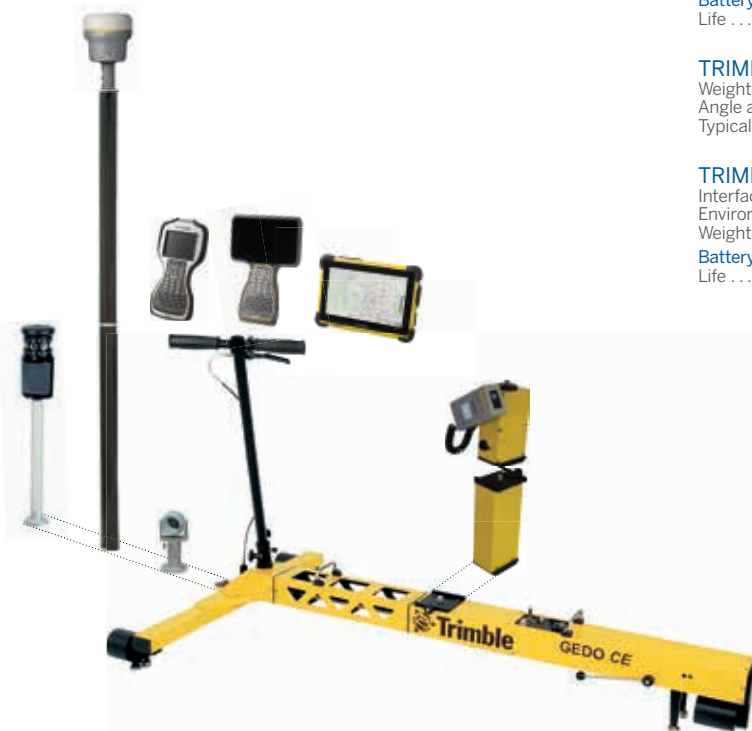
TRIMBLE S9 TOTAL STATION

Weight 5.5 kg
Angle accuracy 0.5" or 1"
Typical accuracy for distance measurement 0.8 mm + 1 ppm or 1 mm + 2 ppm

TRIMBLE R10 GNSS SYSTEMS

Interfaces USB, Bluetooth®, WiFi
Environmental Protection IP67; MIL-STD-810F
Weight 1.12 kg

Battery
Life 5 hours



Specifications subject to change without notice



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