

GEDO CE 2.0: FOR SLAB TRACK

KEY BENEFITS

Reduce construction time and costs with immediate comparison of measured data to design

Verify track geometry with accuracy and confidence. Precise optical positioning and a simple, self-contained trolley provide flexibility and reliable results

Capture track 3D coordinates, gauge and cant in a single operation

Import alignment design from digital or paper plans. Check design information before it goes to the job site

Reduce time for documentation and acceptance. Capture adjustment and track acceptance data and quickly prepare reports for contractors and quality inspection

Support for industry standard calculations including FAKOP® widening

Satisfy reporting requirements with graphical and list form output of corrections for side and height correction plates

Constructing slab track calls for fast, precise measurements and immediate feedback. Trimble GEDO CE is a simple, integrated system to measure for precise adjustments, inspections and quality checks. In one operation, the Trimble GEDO CE captures the 3D coordinates of the track, together with gauge and cant. The information is compared to the design, and offsets and correction values are displayed in the field, where work crews make the necessary adjustments. With its precision measurement systems, Trimble GEDO CE is suitable for conventional and high-speed rail construction.

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 SLAB TRACK CONSTRUCTION AND ADJUSTMENT

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 Office

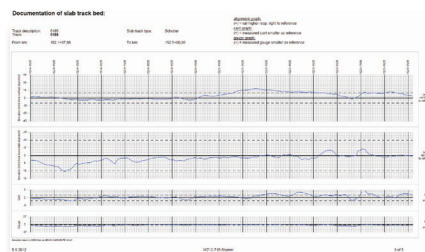
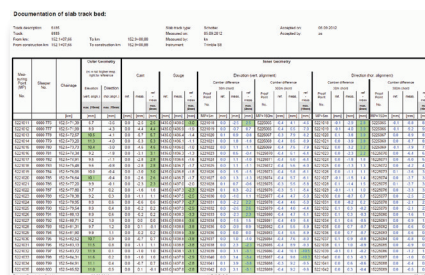
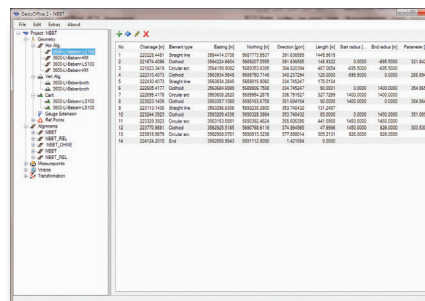
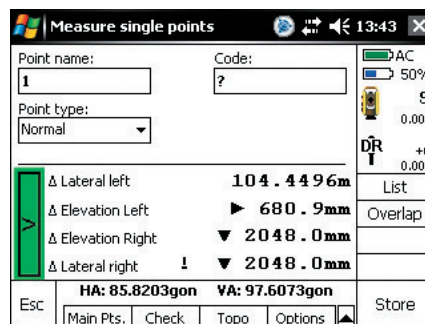
Software for preparing alignments. Supports standard formats for data exchange with external systems.

Trimble GEDO Track

Field software optimized for slab track construction, adjustment and verification. GEDO Track runs on the Trimble TSC3 Controller.

Trimble GEDO Calc

Processing, analysis and review of field data and prepare documentation of the construction and final position.



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TECHSHEET

GENERAL

Application Track adjustment for slab track construction-based on railbounded systems
Track documentation and acceptance for all slab track types
High speed railways, trams, metros, industrial railways, turnouts

Performance 200 m to 400 m/day for adjustment
>100 meters/hour for documentation and acceptance

Update rate 1 Hz

Inner system accuracy ±0.3 mm

Position accuracy <1mm

Supported positioning sensors Trimble S6 Total Station
Trimble S8 Total Station

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



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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 AUTHORIZED DISTRIBUTION PARTNER

