

GEDO TRACK

FOR SLAB TRACK

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.

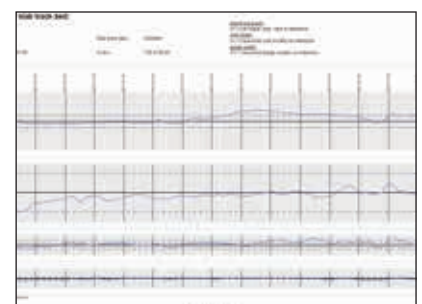
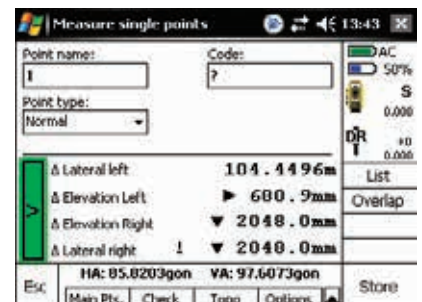
Trimble Profiler GEDO CE 2.0

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.



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



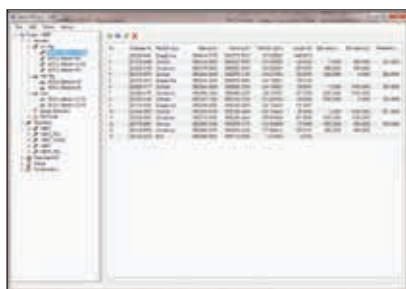
FOR SLAB TRACK

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 S5 Total Station
 Trimble S6 Total Station
 Trimble S7 Total Station
 Trimble S8 Total Station
 Trimble S9 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, 1676 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 6-8 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 -30 °C to +60 °C
 Weight 1.04 kg

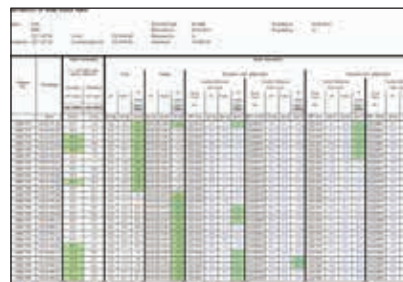
Battery
 Type 28.9 Wh Li-Ion
 Life 34 hours

TRIMBLE TABLET PC

Operating system Microsoft Windows 7 Professional
 Operation Touchscreen
 Interfaces HDMI, USB, Bluetooth® 4.0, WLAN (b/g/n)
 Environmental Protection IP65; MIL-STD-810G
 Temperature range -30 °C to +60 °C
 Weight 1.4 kg

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



Specifications subject to change without notice

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