



GEDO TRACK BAR

SLAB TRACK AND DIRECT FIX TRACK ADJUSTMENT AND CONTROL

The system, based on the electronic track gauge Trimble GEDO Bar, is used in slab track and direct fix projects where a track measuring trolley cannot be used due to the construction process or very slow progress. It is a simply designed, integrated measuring system for high-precision track adjustment, inspection and quality control. The three-dimensional position of the track as well as the gauge and cant are recorded in a single step. The measured data is compared with the design data and the correction values are displayed on site to enable the construction teams to set up the track. The system can be used for high-speed lines as well as for light rail and subway projects.

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

Electronic track gauge Trimble GEDO Bar

The Trimble GEDO Track Bar is equipped with sensors to measure track gauge and cant. It is used together with a Trimble control unit and a Trimble total station.

Trimble GEDO Track Bar

Field software optimized for construction, track installation and control of slab tracks. Differences between current and design position for both rails are displayed simultaneously in the field according to the alignment.

Trimble GEDO Office

Import and preparation of design data and exchange with external systems.

Trimble GEDO Office Rec

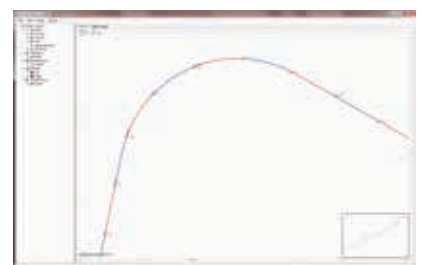
Postprocessing of the data from the field. Station setup merging and equalization of overlap areas.

Trimble GEDO Office Quality

Processing, analysis and verification of measurement data with reports for corrections and documentation for quality assurance.

Key Benefits:

- ▶ Shortened construction time and reduced costs through immediate comparison with target data in the field
- ▶ Information on track adjustment for both rails with one measurement
- ▶ Recording of the three-dimensional track position, gauge and cant in one work step
- ▶ Support of all common elements of track design
- ▶ Support of special calculations (e.g. FAKOP® track head widening, load situation on bridges)
- ▶ Consistent data storage and standardized logging of correction values



SLAB TRACK & DIRECT FIX TRACK ADJUSTMENT

GENERAL

Application Track adjustment, documentation and acceptance for slab tracks and direct fix tracks

System accuracy

Inner system accuracy ±0.3 mm
 Position accuracy < 1 mm

Supported instruments Trimble S5 Totalstation
 Trimble S6 Totalstation
 Trimble S7 Totalstation
 Trimble S8 Totalstation
 Trimble S9 Totalstation

ELECTRONIC TRACK GAUGE TRIMBLE GEDO BAR

Description Electronics track gauge; supports Trimble Totalstation
 Gauge 1000 mm, 1067 mm, 1435 mm, 1520 mm, 1600 mm, 1668 mm, 1676 mm (other gauges on request)

Gauge measurement

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

Cant measurement

Range ±9° or ±235 mm at 1435 mm gauge
 Accuracy ±0.5 mm (static)

Battery

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

TRIMBLE TSC3 CONTROLLER

Operating System Windows® Embedded Handheld 6.5 Professional
 Operation Touchscreen, Keyboard
 Interfaces USB, RS232, Bluetooth®, WLAN (802.11 b/g)
 Environmental Protection IP67; MIL-STD-810G
 Temperature range -30 °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



Specifications subject to change without notice.



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