



GEDO TRACK

FOR SLAB TRACK

Constructing slab track calls for fast, precise measurements and immediate feedback. Trimble GEDO Track is a simple, integrated system to measure for precise adjustments, inspections and quality checks. In one operation, the Trimble GEDO Track system 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, the Trimble GEDO Track system is suitable for conventional and high speed rail construction.

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 EQUIPMENT

Trimble GEDO CE 2.0

Track measurement 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 track measuring trolley can easily be lifted off the track by one person before a train passes through.

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. Based on the measurement, the differences between actual and target are displayed live in the field according to the track design.

Trimble GEDO Office Module Quality

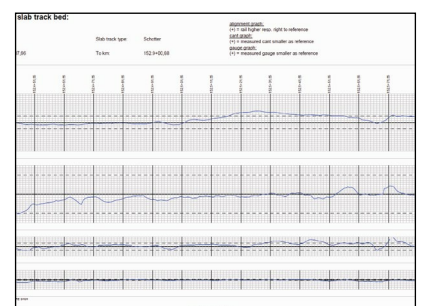
Processing, analysis and review of field data and prepare documentation of the construction and final position. Generates reports on the quality of the track. In addition to flexible travel chord evaluations the necessary corrections are optimized and correction lists are created.

Key Benefits:

- ▶ Reduce construction time and costs with immediate comparison of measured data to design
- ▶ Verify track geometry with accuracy and confidence. Precise 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 and bridge bending
- ▶ Satisfy reporting requirements with graphical and list form output of corrections for side and height correction plates



Point name:	Code:	44%
1022	?	100%
Point type:		0.000
Normal		-35.0
		0.100
Δ Lateral Left	▶ 2.2mm	List
Δ Elevation Left	▲ 1.7mm	Overlap
Δ Elevation Right	!▲ 1.6mm	
Δ Lateral Right	▶ 2.1mm	
HA:254.8678 VA:100.8781 SD:4.757		
Esc	Main Pts.	Check
	Topo	Options
		Store



GENERAL

Application Track adjustment for slab track construction-based on railbouded 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 S-Series total station
 Trimble S9 HP is recommended

TRIMBLE GEDO CE 2.0 TRACK MEASURING TROLLEY (*1)

Description Track-mounted trolley
 Gauge 1000 mm, 1067 mm, 1435 mm, 1524 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 8-10 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

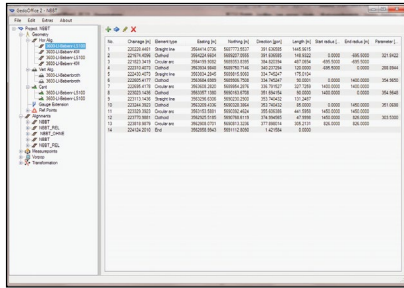
TRIMBLE T7 CONTROLL UNIT

Operating system Windows® 10 Professional
 Operation Touchscreen
 Interfaces USB, Bluetooth®, WLAN (802.11 a/b/g/n)
 Environmental Protection IP68; MIL-STD-810G
 Temperature range -20 °C to +60 °C
 Weight 1.2 kg
Battery
 Type 28.9 Wh Li-Ion
 Life 34 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

*1 If, due to the construction method or the low construction output, no track measuring trolley carriage can be used, the GEDO Track Bar can be used.



Segment	Change	Start	End	Height	Width	...
1	1000	0+00	0+10	1000	1000	...
2	1067	0+10	0+20	1067	1067	...
3	1435	0+20	0+30	1435	1435	...
4	1524	0+30	0+40	1524	1524	...
5	1600	0+40	0+50	1600	1600	...
6	1668	0+50	0+60	1668	1668	...
7	1676	0+60	0+70	1676	1676	...



Specifications subject to change without notice

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