

# GEDO CE 2.0: PRE-MEASURING FOR TAMPING

## KEY BENEFITS

Reduce tamping time and costs with rapid delivery of data to the tamping machine

Reduce track downtime for construction and maintenance

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

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

Import alignment design from digital or paper plans. Alignment editor lets you check design information before it goes to the job site

Post-tamping measurement reduces rework and provides immediate quality control

Support for industry-standard formats and protocols

## 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 TAMPING OPERATIONS

### Trimble GEDO CE Trolley

A single operator can quickly make pre- and post-tamping measurements on ballasted track. Using either single or two-trolley configurations, precise positioning is supplied by a Trimble S-Series Total Station. The trolleys are easily removed from the track to stay clear of tamping and construction machines.

### Trimble GEDO Office

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

### Trimble GEDO Tamp

Software for processing and analysis of field data. The system prepares data for tamping machines using measurements from Trimble GEDO Vorsys. Trimble GEDO Tamp supports standard formats for data exchange with tamping machines and systems.

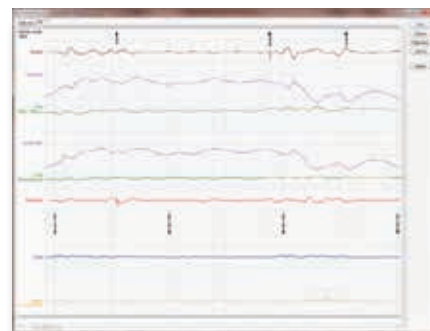
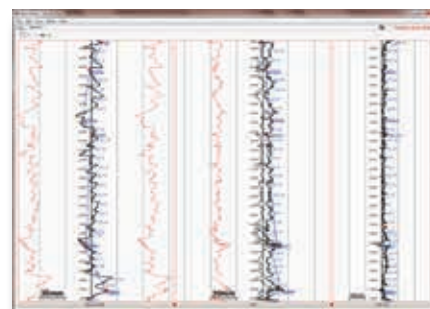
### Trimble GEDO Quality

Software to generate compliance reports ensuring conformity within track safety and quality parameters.

### Trimble GEDO Vorsys

Field software tailored to pre-tamping measurement and data collection. Trimble GEDO Vorsys runs on the Trimble TSC3 Controller and controls all measurement functions. Wireless connections eliminate cables and ensure trouble-free operations.

Measurement : Stabi1				09:50 ok	
Chainage	12	0.09	Slue	3	<<<
Uplift left	▼	2	Uplift right	▼	5
Main point	NWoA		Point	Auto store ▼	
Gauge	1434	Cant	2	Profile	



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TECHSHEET

## GENERAL

Application	Pre- and post-tamping measurement of track New construction, renewal, maintenance, tracks and turnouts
Performance	Up to 1.400 m/hr Up to 2,500 m/hr in Kinematic mode
Measurement speed	1 Hz (Stop&Go Mode) 10 Hz (Kinematic Mode, only S8 and S9)
System accuracy	±0.3 mm
Position accuracy	±1 mm* in Stop&Go Mode ±3 mm* in Kinematic Mode
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 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 instrument trolley	19.5 kg
Weight prism trolley	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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\* Depends on environment and setup.

Specifications subject to change without notice.

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