

Purpose:

Simple, chainage-based QA of track geometry (gauge, cant, twist) with live results and optional as-built checks to control/structures.

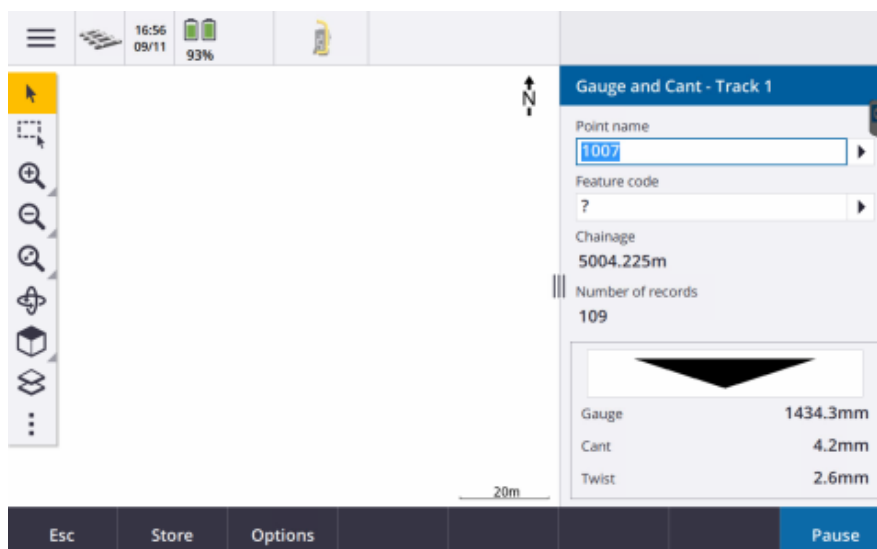
Typical Checks:

- Gauge, cant and twist
- Alignment & level vs design (incl. curvature)
- Clearance to structures
- Section-to-section consistency across works/tie-ins
- QA Reports



Deliverables:

- Chainage-based track geometry dataset: gauge, cant, twist, horizontal & vertical curvature
- As-built checks
- Cross-sections and clearance offsets
- QA plots and summary tables
- Export packages: CAD, CSV and PDF reports



Configuration: Trimble GEDO CE 2.0 trolley with basic documentation setup; control via Trimble Access.

Method:

Continuous recording of basic track quality parameters along chainage; live values shown during measurement; important positions can be coded.

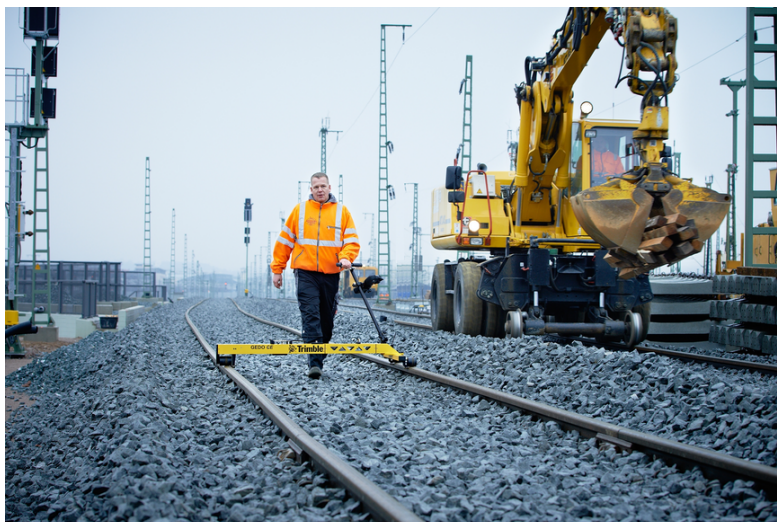


Applications:

- Checking track quality before a line is put into service
- Regular condition inspection of existing lines

Deliverables:

- Chainage-based records of gauge, cant and twist
- Marked key positions captured during measurement
- Tolerance checks for gauge & twist with exceedance flags
- CSV/PDF summaries at user-defined intervals
- Data ready for reporting in GEDO Office





Configuration: Trimble GEDO trolley + Trimble control unit (Trimble Access Rail, Gauge & Cant)
+ GEDO Profiler or Trimble total station

Method:

Continuous recording of basic track quality parameters along chainage with live values; important positions can be captured and coded. With Profiler/TS, measure distance/height to control points and distances to platform edges or other objects.

Deliverables:

- Chainage-based records of gauge, cant and twist
- Coded key positions and live readout
- Distances/heights to control points; offsets to platforms/near-track objects (as-built check)
- CSV/PDF summaries for QA documentation
- Data ready for reporting in GEDO Office



GEDO IMS System

Configuration:

Single GEDO CE 2.0 trolley +
GEDO IMU + control unit + GEDO Profiler or
total station for control.

Method:

Inertial measurement with periodic control
ties for fast corridor as-builts capturing full
track geometry with absolute positioning.

Field advantages:

Inertial measurement with periodic
control ties for fast corridor as-builts
capturing full track geometry with
absolute positioning.

Deliverables:

- Lift & line correction tables (per chainage)
- Full geometry set: alignment/elevation, gauge, cant, twist (absolute)
- 3D track trajectory line
- Absolute alignment/elevation, gauge/cant/twist
- QA plots and CAD exports

