



GXT and SGMT Series Push Along Recording Trolleys

The GXT and SGMT range of Push along Trolleys from Donfabs & Consillia provide a quick and easy method of attaining track parameter data. Standard measurements such as gauge, cross level, twist, top and switch blade clearances can be recorded, with options to include additional parameters, Total Station and GPS.

Setup is quick and simple enabling recording to take place within minutes of arrival at site, and data is available for replay immediately after completion of the test.



Parameters Measured

- Gauge (1435mm standard)
- Cross Level
- Twist (calculated)
- Switch Clearance Left
- Switch Clearance Right

Options

- Top
- Conductor Rail
- Platform
- Total Station and GPS

For more information, please contact the Railway Sales Department at Donfabs & Consillia

Email: sales@consillia.com

Measurement

Parameters are recorded using simple mechanical or electronic measurement principles. As soon as the trolley is pushed and forward movement is detected, recording commences. This ceases as soon as the trolley is stopped

Operation

This range of trolleys are simple to use and setup. The unit is unfolded, the push handle inserted and the portable PC is slotted into its holder. A setup wizard enables parameters to be entered in quickly and then recording can start.

Recording Systems

The trolleys are all supplied with the latest technology which incorporates a sophisticated data logging system with a wireless tablet PC. All data is streamed though to the PC where it can be displayed real time in graphical, tabular or error log formats.

Portable

Designed with portability in mind, all GXT and SGMT5 series trolleys fold into a small footprint for easy transportation, fitting into an estate car or small van.

Braking

All latest version units are fitted with fail safe brakes that are only released when the push handle is in the raised position and ready for use.

Total Station and GPS

Optional prisms and survey equipment can be supplied to provide a Total Station or accurate GPS survey trolley. Software is also supplied to enable accurate records of data to be kept.

Software

The computer system is supplied preloaded with all necessary software including setup, which is simple with multiple choice selection, viewing and reviewing options.

Technical Specification

Construction

Aluminium box section with flexible hinge arrangement to provide transportation folded mode

Measurement Technology

Mechanical paddle arrangement combined with electronic sensor technology for Cross Level

Measured Parameters

Measurement Type	GXT	GXT-D	GXTT	GXTT-D	SGMT-5	SGMT-5D	PTST	CRT	SLMT-D	RSWR-C-S
Gauge	✓	✓	✓	✓	✓	✓	✓			
Crosslevel	✓	✓	✓	✓	✓	✓	✓			
Twist	C	C	C	C	C	C	C			
Top			✓	✓						
Switch Left					✓	✓	✓			
Switch Right					✓	✓	✓			
3M Horizontal Versine							✓			
3M Vertical Versine							✓			
Corrugation								✓		
Platform Height		O				O	O			
Platform Lateral Position		O				O	O			
Conductor Rail		O				O	O			
Distance Recording	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Topography							✓			
Cyclic Top							✓			
GPS							O			
Sleeper Height							✓			
Road / Pavement Height									✓	
Rail Profile										✓

Note: O = Optional, C = calculated from trace

Technical Details

Measurement Accuracy	+/-1mm
Cross Level	+/-1.5mm (over 100-160mm range)
Measurement Resolution	0.5mm

Recording System

Integrated Ruggedised PC with folding lid. Removable from the trolley for transportation and when not in use. Data stored directly to hard disc of PC. All data can be reviewed using the replay software.

Events

Event is triggered from a push button mounted on the push handle. In addition there are "Keyboard" events. when the trolley is at rest the user can input pre-determined annotation messages onto the trace and recording.

Options

Platform Height and Lateral Position System
 Conductor Rail Measurement
 Sleeper Height Measurement
 Total Station
 GPS Location

Environmental

Temperature Range:	0 Deg C to +50 Deg C
Humidity Range:	5 to 95% non condensing
Size:	170mm x 320 mm x 235mm (folded mode)
Weight:	22kg (including recording system)