



Small Diameter GyroTrack Tool

OD range: 1.5 - 3" (40 - 75 mm)

Prime Horizontal



The Small GyroTrack Tool Highlights

- Maps small diameter ducts
- Unaffected by magnetic influences
- Water resistant up to 5 bar/75psi
- Ideal for small radius utility pipes

The small GyroTrack is a gyroscope based mapping tool specifically developed for generating accurate As-Built maps of short duct segments, has an outside diameter of just 36mm and is suitable for a pipe ID of 40mm (1.5"). Optionally, a spacer set is available to scale the unit incrementally up to pipes and ducts with an ID of maximum 75mm (3.0").

The small GyroTrack is robust and easy to operate. Typically, an As-Built profile of a pipe segment can be generated in 30 minutes. Data processing requires mere minutes and output can be instantly viewed in most common GIS platforms.

1 Data collection

GyroTrack operation is enabled after insertion into the end of the product line. Once physical location measurements are made, GyroTrack is pulled through the line at a predetermined rate, usually 1 to 1.5 m/sec.

After GyroTrack arrives at the other end of the product line, it is reversed and pulled back obtaining a second, confirming, set of data.

2 Data processing

Captured data is immediately checked on site to ensure data collection limits and quality control targets have been met. After confirmation, the data can be uploaded to the office through GPRS.

An on site Survey Report can be provided at this time. The report would include the following attributes.

- 3D pipeline profile
- Inclination analysis
- Bend radius report per customer defined intervals
- Job specification
- Job locations

3 Data transfer to GIS

Output data can be exported to open platform formats for seamless integration in common GIS platforms such as:

- AutoCAD
- Excel
- MicroStation
- Text

A final GIS report will be produced after office quality control of the survey.

Small GyroTrack specifications

Diameter	1.4"/36 mm
Operational ID range	1.5"/40 mm to 3"/75 mm
System length	30"/770 mm
System weight	5 lb/2 kg
Inclination rate	+45° to -45°
Maximum pulling force	150 lb/75 kg
Maximum travelling speed	1 m(3')/sec
Logging rate	100hz
Battery autonomy	> 3 hours
Minimum bend Radius in:	DN50/SDR11 duct (ID40.8 mm) : 800 mm
	DN63/SDR11 duct (ID51.5 mm) : 600 mm
	DN90/SDR11 duct (ID73.6 mm) : 300 mm

An example final GIS report



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