

Technical specifications of the land based Current Magnetometry Inspection

The specifications stated below refer to the undisturbed case. Metal parts in close proximity to the pipeline or strong electromagnetic interferences may reduce the sensitivity and may therefore enlarge the measurement error.

Technical specifications for geometry

Maximum error for XYZ mapping	20 mm
Maximum error for depth of cover mapping	20 mm
Minimum angle for the detection of bend angles	1°
Minimum angle for the detection of bend radii	15°
Maximum error for the detection of bend radii	1 D
Maximum deviation RTK GNSS	30 mm

Technical specifications for integrity

Pipe diameter	DN80 - DN1200
Maximum wall thickness	15 mm
Detection threshold metal loss	> 20% of WT
Maximum inspection current	16 Aeff
Maximum pipeline range between two contact points	1,500 m
Minimum distance between parallel pipes	60 cm
Average daily productivity	ca. 750 m
Maximum pipe depth (axis)	up to 2 m

Coating Assessment

Smallest detectable fault	1 cm ²
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Anomaly specifications (POD > 96%) – Pipe depth (axis) < 1.5 m

Minimum length	50 mm
Minimum width	50 mm
Minimum metal loss	50 % of WT