



## MFL Inline Pipeline Inspections

Using the latest MFL tools BerComS is able to deliver the ILI services and reports in accordance with the latest POF standards of quality, accuracy and safety. This contract is based on the information that been provided, as well as the operating conditions specified in our offer, should there be any deviation then it will be discussed and agreed upon in writing.

The advantage of the proposed MFL technology:

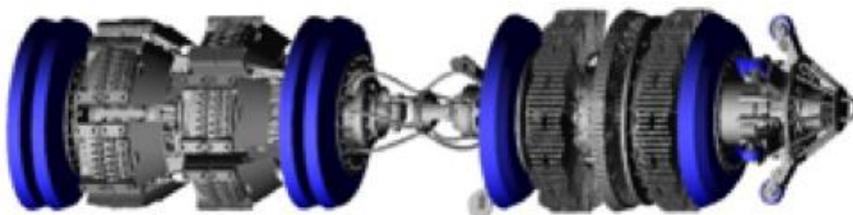
- Most widest used and accepted inspection technology for Oil and Gas industry worldwide;
- A robust technology with regard to pipeline and product cleanliness and homogeneity;
- MFL tools have been developed to the latest standards of electronics, data processing and measuring principles.
- Compact and shortest tools length in the market with high tolerance for various pipeline diameters, wall thicknesses and 3D bend radii which facilitates easy procedures for pig launching, receiving and handling.
- Robust sensor technology, with minimum risk of damage (and data loss).
- Possible to correct the measured value for sensor-lift-off with state-of-the-art software. e.g. in areas of welds and debris.
- Pull Through Test facility to verify detection and sizing result.

The standard scope of work for IN-LINE INSPECTION includes running a IN-LINE INSPECTION TOOL to detect and quantify internal/external corrosion, mechanical defects and other ANOMALIES preceded by proving, cleaning, gauging and calliper (Geometry)PIG runs. The IN- LINE INSPECTION TOOL will run to assess and size the defects along the axial direction of pipe.as a minimum following features: general corrosion, pitting, pinholes, axial grooves, axial external corrosion, dents, internal diameter expansions, buckles, wrinkles, bends, casings, girth weld anomalies, repairs and metal objects touching the pipeline, ovality.

*8" Corrosion detection Intelligent Pig (MFL)*



*40" MFL TFI Inspection Pig*





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## Caliper survey

BerComS provides multi-channel high resolution mechanical Calliper tool/pig to survey the geometry of the pipeline which provide vital information like deformations, curvatures, misalignments, bend radii of the pipeline. The calliper sensors are in direct contact with the pipe wall and give a complete coverage of the circumference of the pipe. The sensors are of an extremely rugged design which makes the Calliper pig suitable for the hostile environment of even old and hard-to operate pipelines.



The detection and identification of the Geometry pig is as follows:

Dents, buckles, wrinkles, ovalities, weld penetration  
Bends and bend radii, misalignment, slope instability, inclinations, landslides, river crossings, risers, valves, Tees  
Sedimentations, wax growth zones, liquid slugs, erosion.