INFO SHEET

ULTRASONIC INLINE INSPECTION TOOL

acquabrella

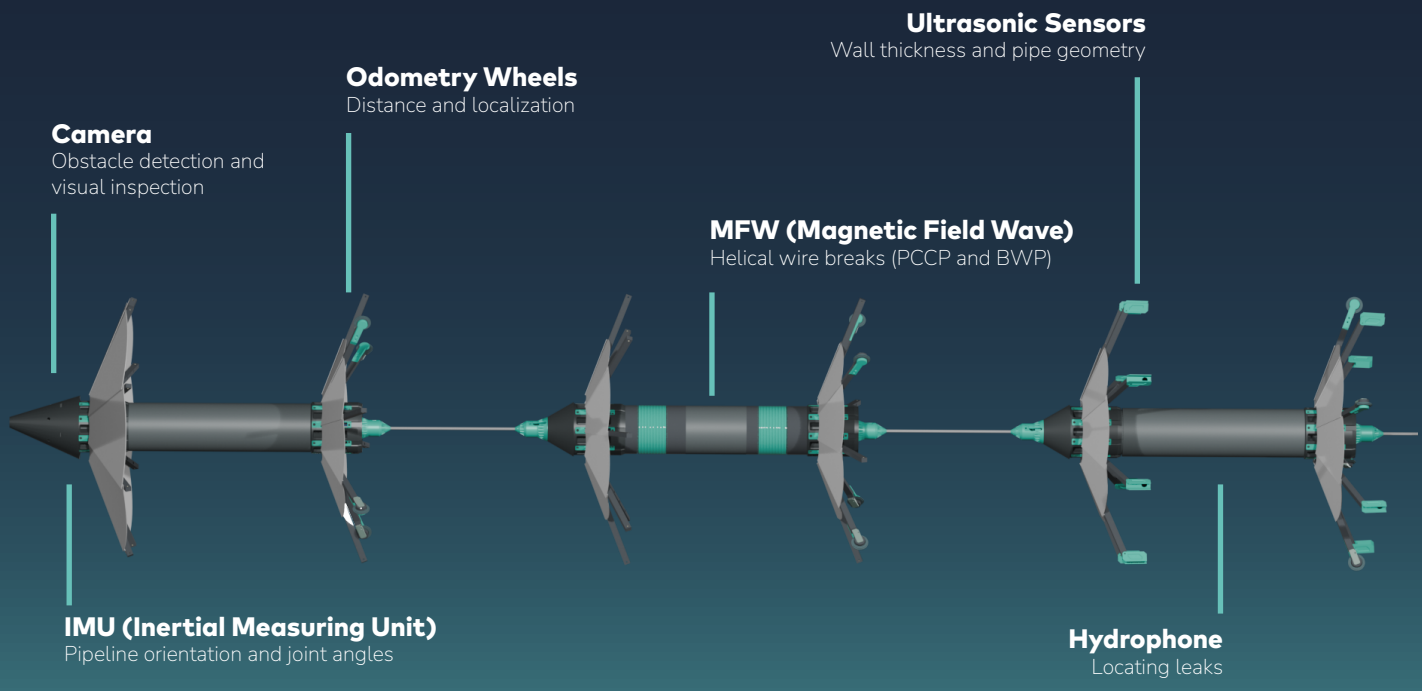
HIGH RESOLUTION - ABSOLUTE DATA

The Acquabrella is a smart inline untethered inspection tool equipped with ultrasonic sensors that transmit and receive sound waves to accurately assess pipeline geometry, wall thickness, joints, and anomalies within pressurized pipelines. The tool was specifically developed for inspecting large drinking water and raw water pipelines (DN800 and larger) and makes it possible to assess the overall condition of a pipeline, even in complex networks with obstacles such as butterfly valves.

The Acquabrella is suitable for pipeline diameters starting from DN800 and can inspect almost any pipe material, including concrete, asbestos cement, cast iron, ductile iron, steel, HDPE, PVC, and GRP. Its ultrasonic technology can distinguish and measure both internal lining layers and the metallic pipe wall separately.

All inspection results are presented through an interactive dashboard containing condition data, mapping, and detected features along the pipeline.

THE ACQUABRELLA



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TECHNICAL INFORMATION

APPLICATION

Applicable in	**Raw water & drinking water pressure pipelines**
Launching & Receiving	**Possible via manhole, 90° or 45° T-piece/Y-piece**
Suitable materials	**All single-layer materials and certain dual-layered materials, depending on their composition**

PIPELINE REQS.

Max. inspection length	**25 km (@0.4 m/s)**
Max operating pressure	**30 bar**
Inspection speed	**Varies from 0.2 - 1 m/s**
Inner diameter range	**800 - 2000 mm**
Bends	**Up to 90°**
Min. radius bends	**1.5D**
Other obstacles	**Can pass any valve, including butterfly valves**

DELIVERABLES

- PDF report
- Online inspection dashboard
- GIS / shapefiles and processed inspection data

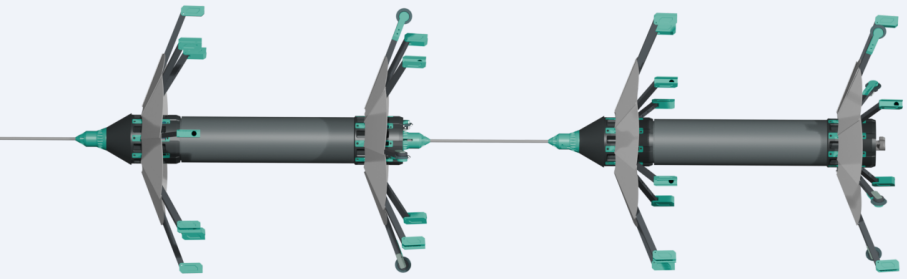
MEASUREMENTS AND ACCURACY

ALL MATERIALS

XYZ- mapping	**0.5 m (3 sigma)**
Wall thickness	**0.49 mm**
Joint angular displacement	**0.25°**
Joint gap width	**11.0 mm**
Axial deformation	**0.2 m**
Leak detection	**>13.0 dB**
Ovality	**0.5%-point**
Air pockets and debris	**Detection and sizing**

PCCP AND BWP

Wire breaks	**Detection and quantification**



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