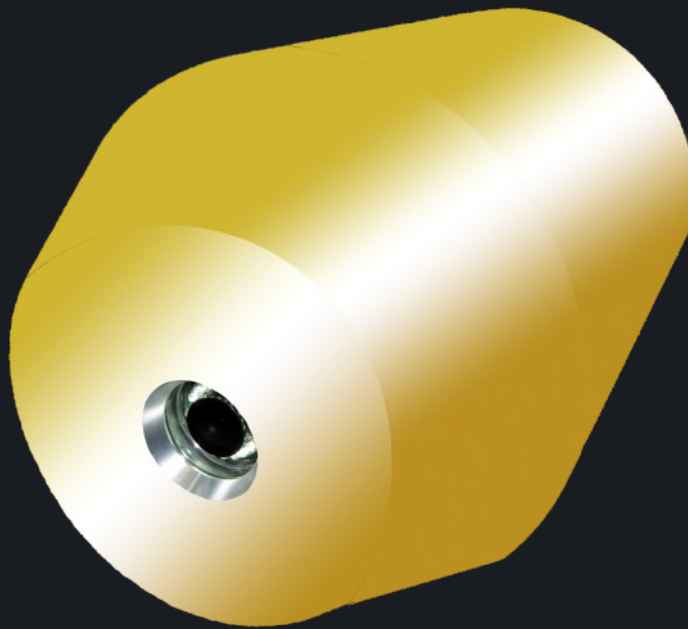


MTA PIPE - INSPECTOR®

Cable-less Video Inspection of Pipelines
with Integrated Leak Detection

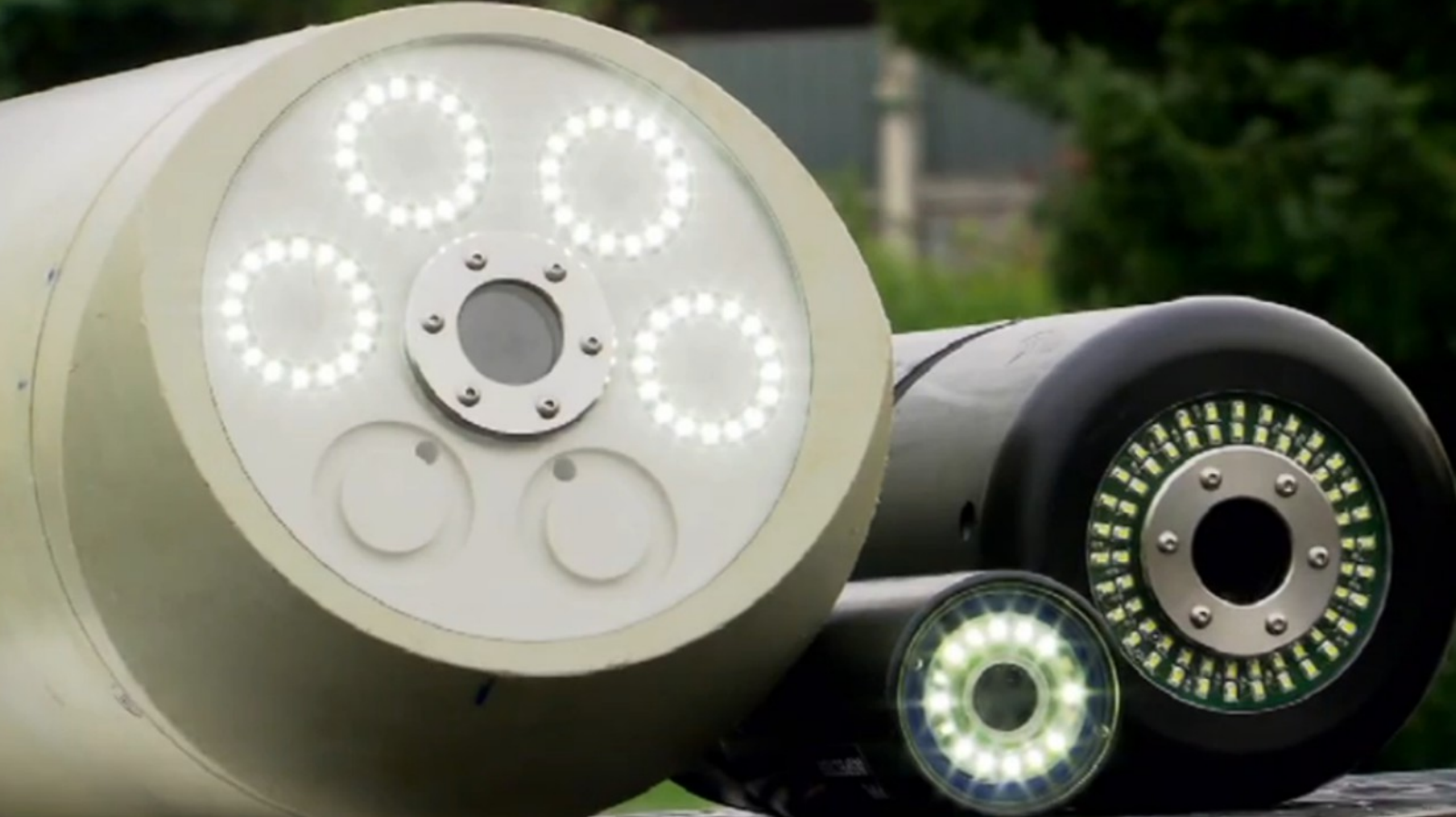


KÄRNTEN
Innovation
and Research Award
of Carinthia
2014

Potable water
Wastewater
Hydropower
Industry

ÖVGW
MITGLIED DER ÖVGW
ÖSTERREICHISCHE VEREINIGUNG
FÜR DAS GAS- UND WASSERFACH





MTA PIPE-INSPECTOR[®]

Cable-less Video Inspection
of Pipelines with
Integrated Leak Detection

For Potable Water,
Wastewater, Hydropower
and Industry

BENEFITS

- Certified for contact with potable water
- No interruption of operation
- No excavations and pipe cuttings
- High daily output
- No pre-cleaning
- Low personnel costs
- Environmentally friendly

OPERATION

MTA Pipe-Inspector allows the complete optical and acoustic inspection of transport pipelines working with all pipe materials and without interrupting operation.

The continuous inspection of long sections up to 50km length is only made possible by the cable-less operation of MTA Pipe-Inspector.

MTA Pipe-Inspector floats battery powered in the pipeline fluid providing continuously data from inside for determining the pipeline condition without excavations or pipe cuttings.



MTA Pipe-Inspector in test mode

FEATURES

- Optical video inspection
- Sound recording for detection of smallest leakages
- Pinpoint accuracy down to 5l/h at 5bar operating pressure
- Pressure recording along the entire pipe length
- Turbidity measurement (optional)
- Conductivity measurement (optional)
- Temperature measurement
- Meter display
- Video in HD-quality

APPLICATIONS

Overcoming 90° bends MTA Pipe-Inspector is applicable in pipelines from DN 100 to DN 3000 regardless of the pipe material.

Even in hard-to-reach pipelines like at airports, highways, industrial or other access-sensitive areas it can be utilized.

POTABLE WATER

Inventory data of pressure pipelines are often only intermittently available. Data pertaining to installation fittings, connectors, peaks and low points, pressure recordings under operating conditions and assessment of the pipeline are often entirely missing.

MTA Pipe-Inspector allows the optical inspection of potable water pipelines including leak detection over long distances during operation.

Delivering the data for system condition assessment the system offers a reliable basis for further economic decisions, risk management and evaluation.

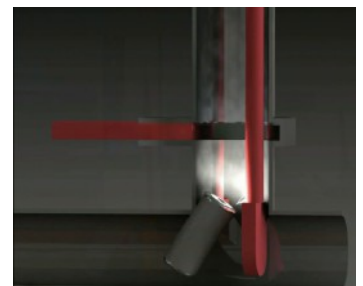
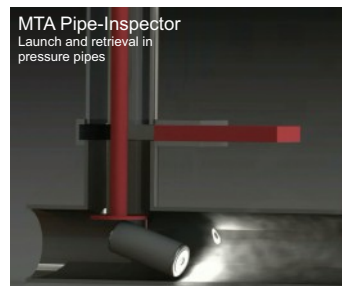


- DN 100 - DN 3000
- Up to 100bar
- 90° bend capable
- Up to 50km (standard)
- Acoustic leak detection
- Pressure recording
- Damage protocol including pictures
- Protocol section by section

Suitable for all
materials and fluids

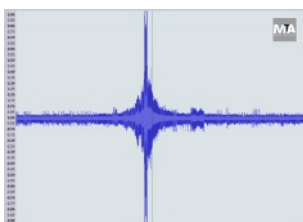
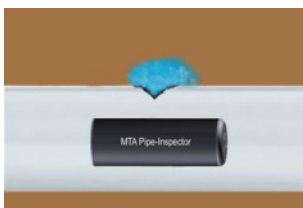
LAUNCH AND RETRIEVAL

Via existing fittings the device is inserted into the pipe, in pressure applications by means of a special insertion sluice gate and is removed for data evaluation at a predetermined end point.

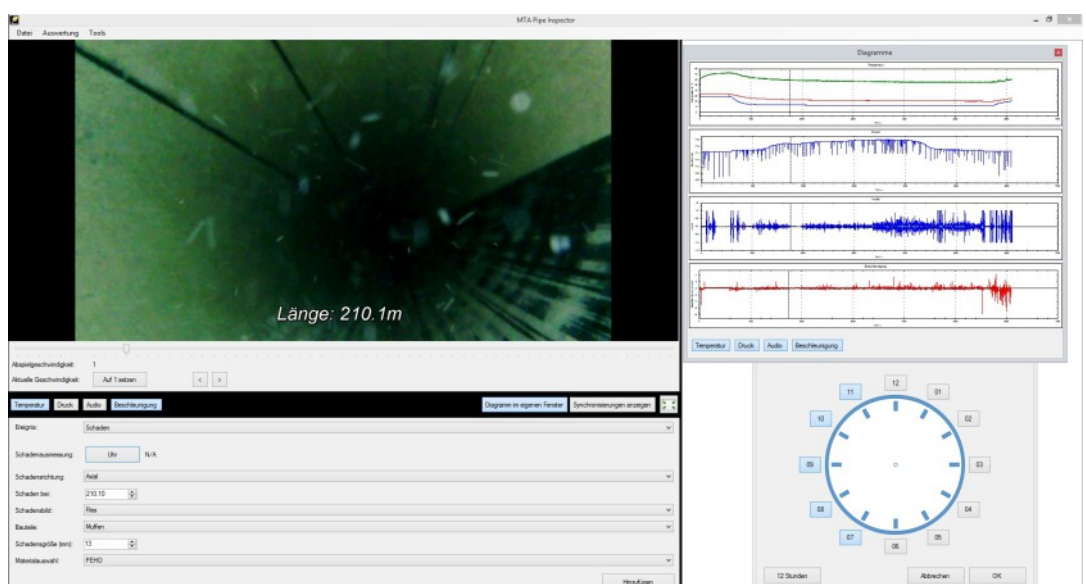


LEAK DETECTION

MTA Pipe-Inspector locates leakages also in non-metallic pipes by recording leak sounds directly at their point of origin, regardless of the pipeline material and diameter.



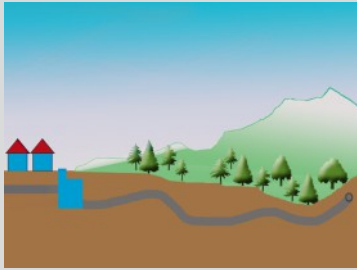
Leak sound visualisation



WASTEWATER PRESSURE PIPELINES

Wastewater pressure pipelines with only few manholes at large distances, with bends, peaks and low points are a real challenge when it comes to their inspection and condition assessment.

MTA Pipe-Inspector offers a whole new spectrum of opportunities for pipeline examination and maintenance.



Peak detection

- DN 100 - DN 3000
- Pressure pipes up to 100bar
- Acoustic leak detection
- Detection of deformations and peaks
- Damage protocol including pictures

WASTEWATER OPEN CHANNELS

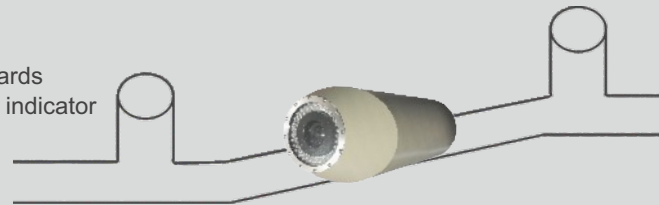
Sewer Pre-Inspection

For optical video inspection of open channels, at daily outputs of 10 up to 20km, MTA Pipe-Inspector dispenses with the need for advance cleaning and reduces the personnel costs significantly due to its autonomous concept.



Open channel

- DN 150 - DN 3000
- Min. 4cm water level in the sewer
- Damage detection
- Sectionwise evaluation acc. to EN standards
- Temperature measurement as infiltration indicator



GAS

The aim of gas pipeline inspections by MTA Pipe-Inspector within the context of commissioning is to assure quality and the compliance with existing standards.



MTA Pipe-Inspector „Gas“ in pipe pig



Insertion into gas pipeline

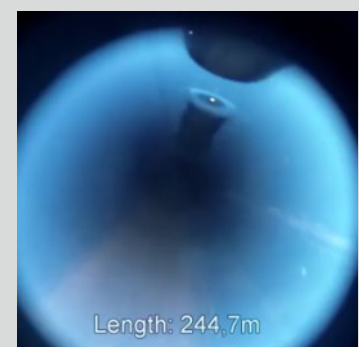
HYDROPOWER

MTA Pipe-Inspector acoustic leak detection pinpoints smallest leaks down to 5l/h at 5bar.

The inspection of newly installed hydropower pipelines ensures that no deposits or sediments affect the operational conditions of the entire system.



Hydropower pipeline inlet



Potable water pipeline inspection



Length: 2295.6m
Hydropower pipeline inspection, foreign object „hammer“



MTA Pipe-Inspector retrieval at Francis turbine

MTA Rohrservice GmbH
Bulgarien
9000 Varna
ul. Stefan Stambolov 31-33/5
+359 88 766 12 58
+359 52 600 751
+43 664 250 5701
d.ivanova@mta-service.eu
office@mta-service.eu
www.mta-service.eu