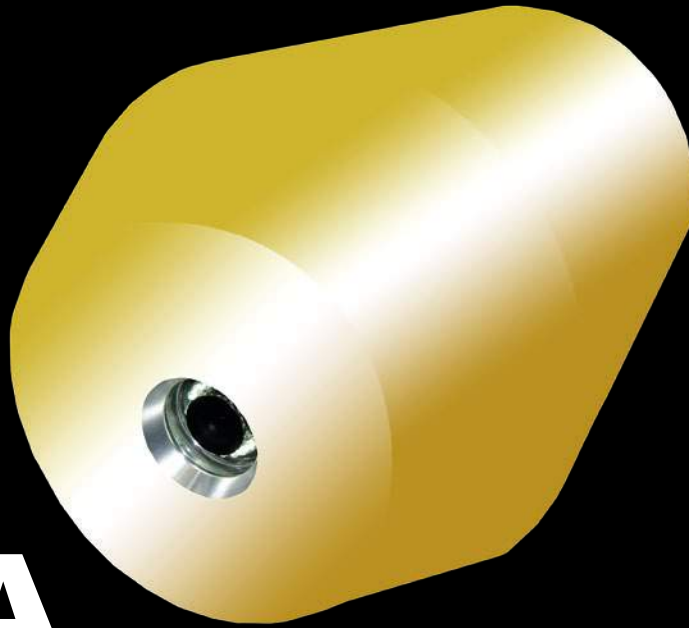




WORLD WIDE WATER



# MTA PIPE - INSPECTOR®

**CABLE-LESS  
MULTI-SENSOR  
IN-PIPE INSPECTION**  
Video & Leak Detection



**Innovation and  
Research Award  
of Carinthia**

United States Patent  
No. 9,804,102 B2





# MTA PIPE INSPECTOR®

CABLE-LESS MULTI-SENSOR IN-PIPE INSPECTION  
video - leak detection - pressure - temperature - turbidity - conductivity - distance ...

## FEATURES

- All pipe materials
- DN 100 (4") - DN 3000 (120")
- CCTV 30fps HD-quality video
- Hot tapping
- Overcoming 90° bends
- Pinpoint leak accuracy  
5l/h (1.3gph) at 5bar (75psi) pressure
- Up to 50km (30miles) in one pass
- Distance recording
- Trackable (location signal)

## IN-PIPE INSPECTION

MTA Pipe-Inspector is an autonomous inspection device. Floating battery powered in the pipeline fluid it collects continuous measurement data from inside for determining the pipeline condition without excavations or pipe cuttings.

## FROM DN 100

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.

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





**MTA PIPE - INSPECTOR®**

## BENEFITS

- No service interruptions
- No access excavation or pipe cuttings
- No pre-cleaning
- Complies with drinking water quality standards
- Access in restricted or high risk areas
- Environmentally friendly

## APPLICATIONS

- Drinking water
- Raw water
- Wastewater
- Industrial water
- Hydropower
- Gravity channels and force mains
- Distribution and transmission lines

## AIR POCKETS AND PEAKS

Air pockets and peaks, affecting the efficiency of pipeline operation are reliably detected by a specific combination of optical and acoustic inspection procedures.

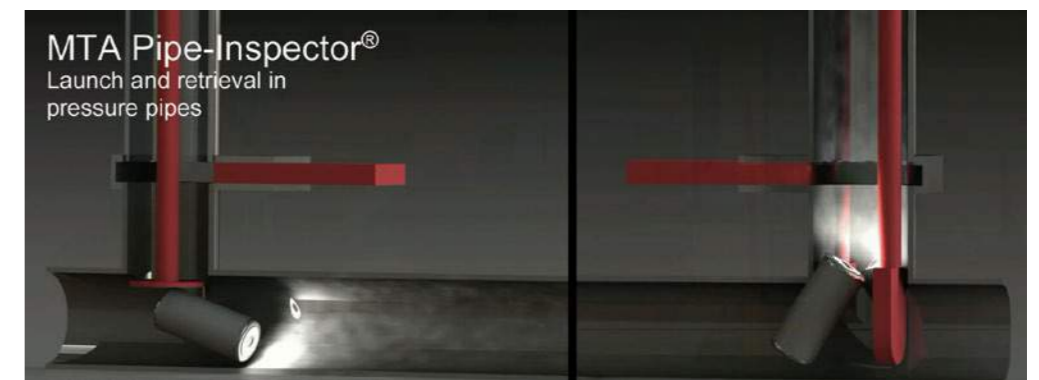
## LAUNCH AND RETRIEVAL

In pressure applications the MTA Pipe-Inspector can be deployed into live mains by means of hot tapping with valve and flange fittings.

In case the end location does not allow direct extraction access a retrieval sluice is attached at a valve to insert a retrieval net. The net covers the complete main pipe inside diameter to catch the MTA Pipe-Inspector.

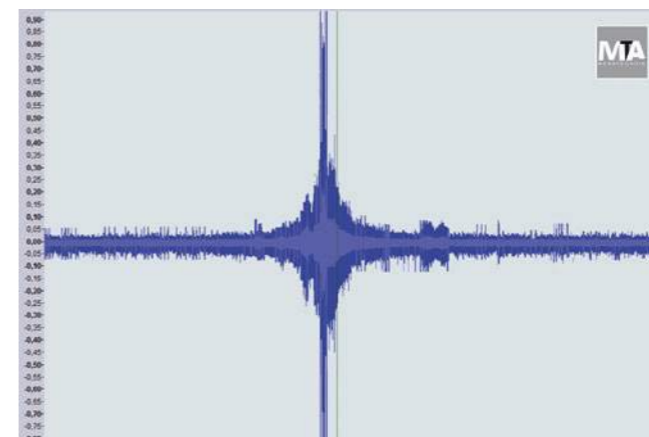


AIR POCKETS AND PEAKS



## ACOUSTIC LEAK DETECTION

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





## 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 in „taxi pig“



Insertion into gas pipeline

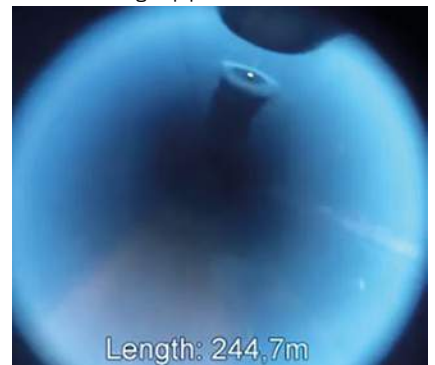
## HYDROPOWER

MTA Pipe-Inspector acoustic leak detection pinpoints smallest leaks down to 5 liter per hour (1.3gph) at 5bar (75psi) operating pressure.

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



Foreign object „hammer“



MTA Pipe-Inspector retrieval at Francis turbine



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