framatome
Intercontrôle

FLEXOPIPE

Weld inspection (UT) system for welds on circular piping

FLEXOPIPE: a new non-destructive examination tool, industrial, efficient and safe



Challenge

Essential operation to guarantee the integrity of the circuit, non-destructive testing (NDT) of welds pursues increasing performance objectives in terms of quality, reduction of deployment time and exposure of personnel.

Solution

Intercontrôle has developed a new scalable tool for the Non-Destructive Testing of circular welds on pipes of different diameters and configurations.

This modular equipment allows the immediate implementation of circular weld examination on piping in Tube/Tube, Tube/Elbow and Elbow/Elbow configurations from 8 inches to 16 inches.
It allows:

- a motorized or non-motorized encoded rotation around the piping, controlled by a remote control
- a translation of the encoded manual control means
- a measurement equipment attitude management (for optimal equipment orientation), motorized and controlled by remote control

User interface

- Wireless remote control
- Equipment on battery (without cable, without control bay or power)
- Only interface – the processing of encoder data



Robotic characteristics

- Adapted to pipes and configuration (Tube/Tube, Tube/Elbow and Elbow/Elbow)
- From 8 inches to 16 inches in diameter, the use range can be enlarged during development by homothety
- Rotation greater than 360° and motorized adjustment of the probe's attitude
- Translation from 300 mm to 800 mm that can be motorized

Characteristics measuring equipment

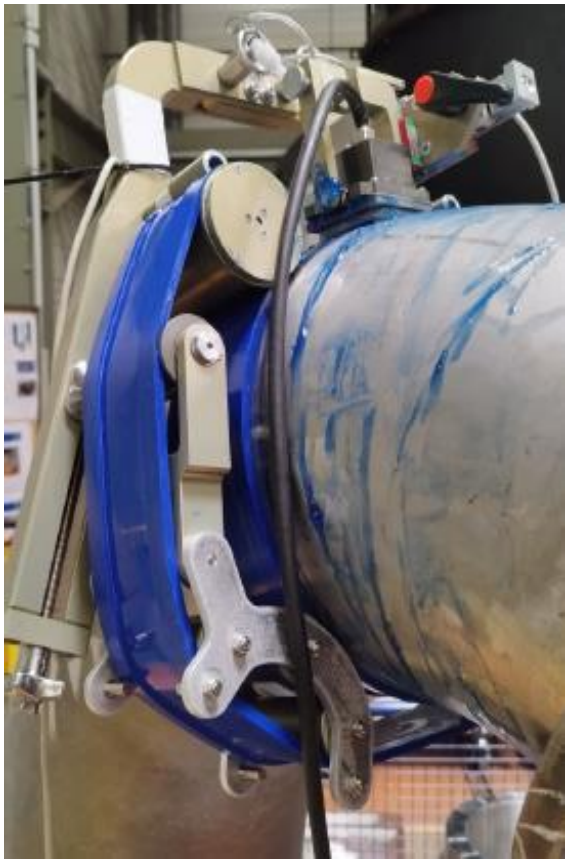
- Initially developed for multi-element ultrasound probes with conformable type imaging (water pocket)
- Suitable for other measuring equipment type: flexible multi-element eddy current probe, digital X-ray PCD-type sensor

Your performance
is **our** everyday **commitment**

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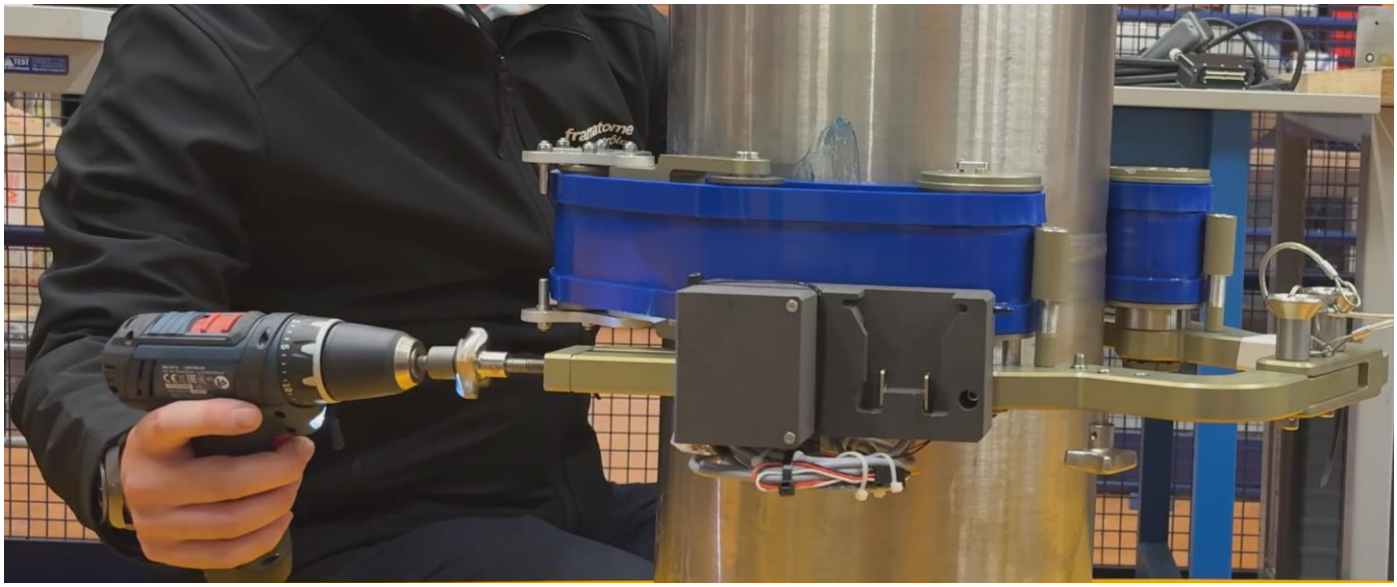
User benefits

- Significant dose reduction by comparison with a cerce type encoded manual equipment, due to limited contact of personnel with the piping during acquisitions (rotation and management of the motorized attitude)
- Saving execution delay thanks to an elbow/elbow configuration that allows avoiding the use of a robot to manage complex trajectories
- Simplicity of implementation: installation time disassembling:
3 minutes for two people
- Versatility of installation directly on the weld or deported from the weld according to the obstacles (tapings, radio plugs...)
- Ease of use because wireless, on battery
- All NDT techniques and all diameters (8-10-12-14-16'' developed)



Security and Standards

- CE certification



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www.intercontrole.com

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