UT_POLE: Thickness measures accessible up to 12m

-> No access means for Wall Thickness Measures up to 12m.

-> Precise B-scan with the custom “hands free” software.

-> Safety and efficiency increase, no works at height.

-> Relieve the asset owner from access means organization & costs

Why do we need some access means?

Legal and site safety rules make the access means mandatory for unaccessible areas.

Many wall thickness measures are be taken in heights, including steel or stainless steel storage tanks, sphere and pressure vessels, columns, pipes, and other equipments visual and thickness inspections.

The constrains created by those access means, including transport, installation, over coactivity, preparation & supervision directly impact the controls impact, for the service supplier and for the asset owner.

In the Petrochemical industry, a recent study has estimated that the requirement of access means increase by a 3 factor the overall cost of an NDT control.

ROBOPLANET has manufactured the UT_Pole to reduce the negative impacts of access means.

Specifications:	
Wall Thickness	2mm— 50mm
Metal	Steel & Stainless Steel
Max heigt	12 m
Thickness precision	+/- 0.15 mm
Wall temperature	0° - 150°C
Data visualisation	Tablet
Signal processing	Signal A-scan + Bscan
Max rugosity	0.5 mm non adherent
B-scan	100 mesure/m
Option	Surface preparation
Applications	Storage tank shell, tank roofs, above-stiffener zone, columns, pressure vessels, pipes, etc.

They tested & approved the UT_Pole :

TOTAL COMMITTED TO BETTER ENERGY

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A design driven by field operators :

UT_Pole is a mechanical, electronical & software equipment designed for hard field conditions.

Before its distribution, UT_POLE has been tested and qualified for 1 year in various industries including cement plants, oil tank farms, nuclear plants, etc.

ROBOPLANET also took the contribution of its 5 years experience in ultrasonic crawlers manufacturing and maintenance (20 units operated on the field).

UT_Pole embarks a rugged magnetic probe carrier, a 12m carbone pole, UT electronics and water coupling set, all integrated in a backpack, and a tablet.

The equipment displays A-scan & B-scan signal, with a redundancy of 1 measure per cm, in a custom « hands free » software.
The full equipment is single-man transportable.

A custom electronics for a fast report

The specifically-designed software is built to maximize the operator efficiency and confort at use with :

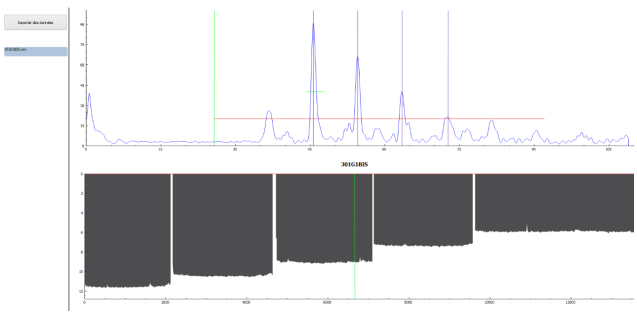
- The automatic thickness calculation based on an in-house algorythm.
- The weld marker for an easier report generation.
- The automatic detection of maximum, minimum and average thickness by plate in the report.

100% of the A-scan signal is recorded, so all control parameters (gain, gates position, false echoes) can be re-computed in 1 click during the report generation.

The report software generates .csv and .jpg B-scans.

More options for more services

Visual inspection : HD camera + LEDs.
Surface preparation : mechanical cleaning with custom module.



Contact us :

Ask all your questions,

Schedule a live demonstration on your site :

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A bientôt!