



ROBOPLANET



# UT\_POLE

## THE MOST PROFITABLE TOOL FOR NDT AT HEIGHT

80% of thickness inspections are conducted at heights below 12 meters from the ground, the UT\_Pole is a short-term ROI solution designed to simplify these inspections. Designed by field expert, the UT\_Pole is a robust and versatile. Transportable and fast to deploy, it help to perform thickness inspections on steel or stainless steel structures. The UT\_Pole eliminate the need for access means, speed up the process and reduce risks.

## FEATURES

- ▶ Strong: rugged and weatherproof,
- ▶ Safe: work at height free,
- ▶ Versatile: for steel & stainless steel,
- ▶ Accurate: High S/N ratio, A-scan & B-scan,
- ▶ Customization: internal safety, camera, lite version, etc.

## KPIs

Capacity: 40 B-Scans of 12m/day for 2 operators.



Potential ROI: from 1 day to 1 month.

Efficiency: 2 operators are approximately twice as fast as a team of rope access technicians and about 5 times more cost-effective than a scaffolding solution.



Closer to assets, away from risks



	UT_POLE LITE	UT_POLE
Heavy Duty Probe Holder <ul style="list-style-type: none"> <li>• UT sensor dual cristal, 13mm 5Mhz</li> <li>• Wheeled magnetic probe holder</li> <li>• 12m pole</li> </ul>		
Umbilical 15m	Water and Lemo coaxial cable	Water and Ethernet cable
Custom UT electronic inside	2x Lemo-0/Lemo-1 for standard UT equipment	✓
Datareport - Automated report generation software & B-scan analysis	✗	✓
Wireless UT acquisition software on PC	✗	✓
B-Scan and onboard UT electronics	✗	✓
Onboard Camera with live display	✗	✓

Options : IP67, safety pole pack, 4gas safety pack, maintenance and spare part, and more.



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# SPECIFICATIONS

## INSPECTED SURFACE

- Metal: Carbon steel & Stainless steel
- Wall temperature: from 0°C to 100°C
- Plate thickness: 2 - 50mm
- Max coating thickness: 1mm
- Minimum surface diameter: 16"

## CARRIER

- Dimensions: 27X19X10 cm
- Lightweight: 2kgs
- Magnetics: 15 kg magnetic hold
- Water resistant, IP67
- Rugged connectors
- Encoding precision: 0.1% FS

## WATER TANK

- Capacity: 16L
- Pumping: Batteries
- Flow: Adjustable +- 1L/min

## BATTERY

- Tension: 24V DC
- Type: Batteries
- Autonomy: 5h

## ULTRASONIC MEASUREMENTS

- Sensors type: UT, dual Emission/Reception
- Standard precision: +/- 0.15mm
- Frequency/Diameter: 5Mhz/13mm
- Voltage: 0V - 200V
- Sampling frequency: 80Mhz
- Adjustable gain: 0 - 60 dB
- Visualization: A-scan, B-scan display
- Reporting: automated excel generation
- Post inspection data modification

## SIGNAL PROCESSING

- Hardware: Panasonic CF-31 or CF19
- Gates: Adjustable
- Display: A-scan & B-scan, real time
- Date record: A-scan & B-scan
- Save format: .csv ; .jpg

## OPERATING CONDITIONS

- Operating temperature: from 1° to 40°C
- Wind: <10knts
- Rain: <0,5mm average/day

