



ROBOPLANET



UT_POLE

THE MOST PROFITABLE TOOL FOR NDT AT HEIGHT

80% of thickness inspections are conducted at heights below 16 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: 300m of B-scan/day, 3+ tanks, 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 • UT sensor dual cristal, 13mm 5Mhz • Wheeled magnetic probe holder • 16m pole, 30m from a high point		
Umbilical 20m	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 : safety pole pack, 4gas safety pack, maintenance and spare part, and more.



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SPECIFICATIONS

INSPECTED SURFACE

- Carbon steel: B-scan up to 16m
- Stainless, all grades: spot 16m, B-scan 12m
- Wall temperature: from 0°C to 100°C
- Plate thickness: 2 - 50mm
- Max coating thickness: 1mm
- Min. dia.: 400mm, 1000mm circumferential

CARRIER

- Dimensions: 27X19X10 cm
- Pole weight: 3.5 to 4.86kg
- Magnetics: 15 kg magnetic hold
- Water resistant, IP54
- Rugged connectors
- Encoder step: up to 1 measurement/mm

WATER TANK

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

BATTERY

- Tension: 24V DC
- Type: Batteries
- Autonomy: pump 16h, PC 3 batteries of 2.5h

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: API 653, DT94 & CODRES, on site
- 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: up to 12.5 m/s, about 24 knots
- Rain: works in heavy rain

