



ROBOPLANET



ALTISCAN

THE MOST EFFICIENT CRAWLER FOR UT OPERATION

The Altiscan stands out for enabling precise ultrasonic inspections in difficult-to-access areas, reducing the need for costly and time-consuming scaffolding or rope access. Its conception ensures greater safety with strong magnet and high performance capacity. For those who already have UT system, a lite version of the crawler is available.

It is the ideal solution for complex industrial environments where efficiency, safety, and cost reduction are key.

FEATURES

- ▶ Fast: 12m/min
- ▶ Safe: 7Kg weight & 70 Kg magnetic hold
- ▶ Strong: IP67 weatherproof
- ▶ Accurate: High S/N ratio, A-scan & B-scan
- ▶ Customization: camera, C-Scan arm, lite version etc

KPIs

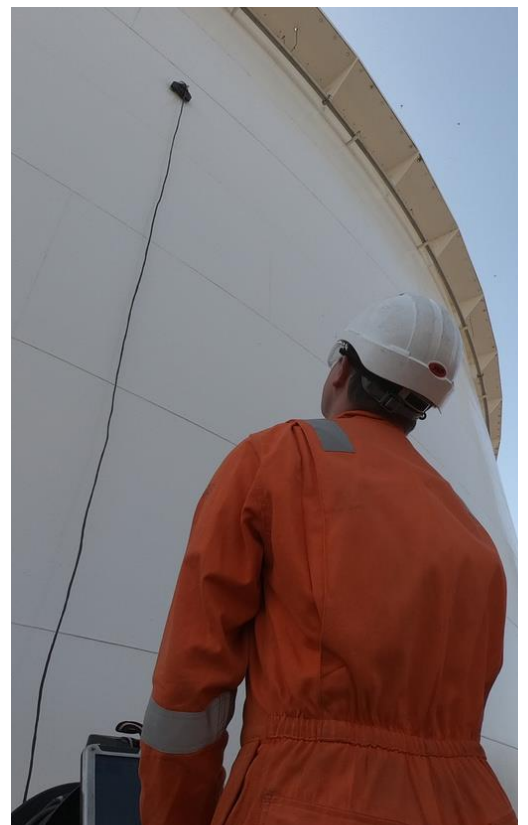
Capacity: 50 B-Scan of 25m/day.

Operability: on moss or residus, under rain and wind.

Average user familiarization time: 10 minutes.



Maintenance return rate: less than 1 per year.

Robot drop rate without belaying: 1/1,000 tanks.



Closer to assets, away from risks



	ALTISCAN LITE	ALTISCAN
Heavy Duty Magnetic Crawler <ul style="list-style-type: none"> • Cristal UT sensor, 13mm 5Mhz dual • 2x 5 hours autonomy Li-ion internal battery • Ground electronic case integrated in the drum 		
Umbilical 30m	Water and Lemo coaxial cable	Water and Ethernet cable
Datascan - Field driving software	Adapted software	✓
Compatible with non-ROBOPLANET UT system	2x Lemo-0/Lemo-1 for standard UT equipment	✓
Datareport - Automated report generation software & B-scan analysis	✗	✓
Wireless UT acquisition software on PC	✗	✓
Onboard Camera with live display	✗	✓

Options : Umbilical size, IP67, 4gas safety pack, software driving assistance, maintenance and spare part, and more.



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SPECIFICATIONS

INSPECTED SURFACE

- Plates : Carbon steel & Stainless steel
- Wall temperature : 0°C to 70°C
- Plate thickness : 2 - 50mm
- Max coating thickness : 1mm
- Max height : 30m

CARRIER

- Dimensions : 35X35X20 cm
- Weight : 7kgs
- Max speed : 20cm/s - 12m/min
- Pull-up force : 70 Kgs
- Slipping force : 35Kgs
- Water resistant
- Rugged connectors
- Encoding precision : 0.1% FS

WATER TANK

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

BATTERY

- Tension: 24V DC
- Type: Batteries
- Autonomy: 2x5h

ULTRASONIC MEASUREMENTS

- Sensors type : Ultrasonic, dual Emission/Reception
- Standard precision : 0.1mm
- 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, A-scan & B-scan
- 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

