

VOLIRO



Voliro T

NDT thickness measurements



Benefits

- Up to 200 readings per hour
- 5+ outside storage tank inspections per day
- 10+ transmission line tower inspections per day
- No or significantly reduced asset down time
- No scaffolding or cherry picker required
- Readings at hard-to-reach locations (e.g. pipe elbow)
- Multiple payload sensors (UT, EMAT, DFT and more)
- No surface preparation necessary with the EMAT sensor

200

measurements per hour, saving days over scaffolding installation and disassembly

100%

productivity gain in comparison to traditional inspection techniques

Inspection Scope

Measurements

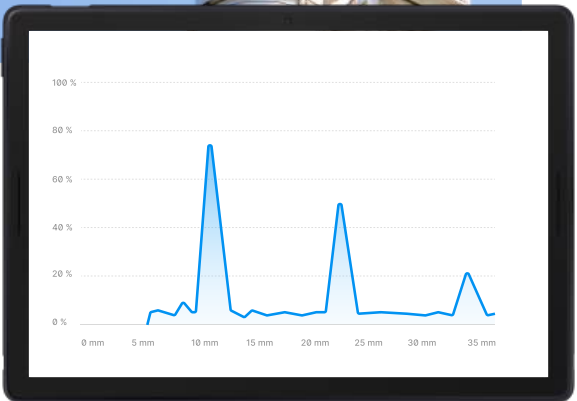
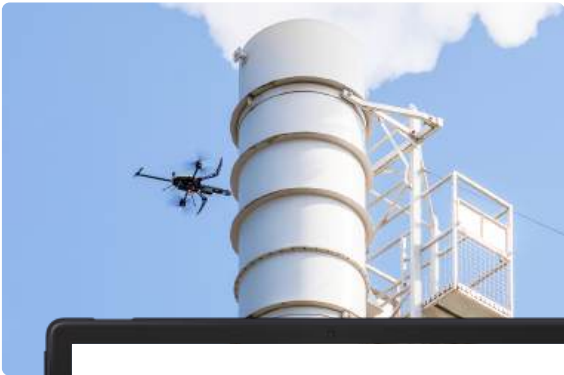
- Point measurements
- Wall thickness
- Dry film thickness

Defects

- Erosion
- Corrosion
- Delamination

Example assets

- Storage tank (inside and outside)
- Flare stack
- Chimney
- Overhead piping
- Cement kiln
- Transmission line tower



Equipment

1 Voliro T

2 Ultrasonic Transducer (UT) Thickness Gauge

Compliant with	EN 12668-1 and ISO 16831:2012
Test mode	Peak to peak, single peak
Data visualization	Live A-Scan displayed in Voliro App
Surface temperature	60 °C (optional 200 °C)
Thickness range	2 – 150 mm
Couplant	Water-based gel

3 Electromagnetic Acoustic Transducer (EMAT) Thickness Gauge

Compliant with	ASTM E1816 – 18
Test mode	Peak to peak, single peak
Data visualization	Live A-Scan displayed in Voliro App
Surface temperature	60 °C
Thickness range	2 – 150 mm
Max. lift-off	4 mm
Couplant	None

4 DFT (Dry Film Thickness)

Compliant with	EN ISO 1461, 2064, 2178, 2360, 2808, 3882, ASTM B244, B499, D7091, E376
Test Mode	Magnetic induction and eddy current
Thickness Range	0 – 1.5 mm / 0 – 60 mils (ferrous) 0 – 0.7 mm / 0 – 30 mils (non-ferrous)
Substrate	Non-magnetic coatings on ferromagnetic substrate, insulating coatings on non-ferrous metals

1



2



3



4





Voliro AG

Förrlibuckstrasse 150

CH-8005 Zurich

+41 43 883 03 27

contact@voliro.com

www.voliro.com

