

Voliro T - Payloads Technical specifications







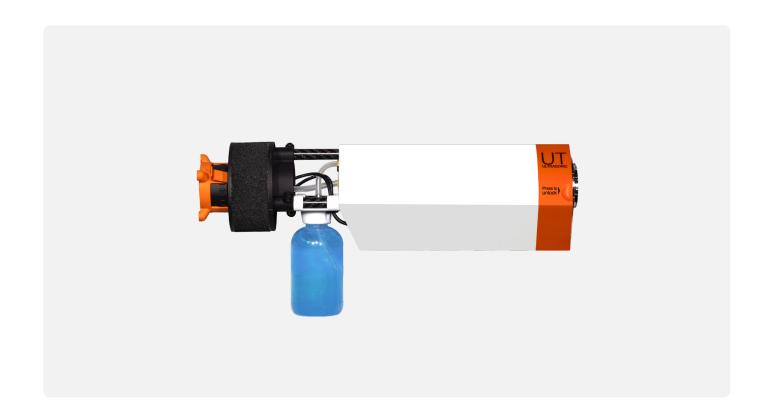




Electromagnetic Acoustic Transducer (EMAT) Thickness Gauge

For wall thickness measurements

Voliro AG
33 cm / 13 in
0.67 kg / 1.48 lbs
ASTM E1816-18
Peak to peak, single peak
Live A-Scan displayed in the Voliro App
Peak
3.5 - 4 MHz
-20 - 60 °C / -4 - 140 °F
Radially polarized shear waves
0.06 mm / 0.002 in
2 – 150 mm / 0.08 – 5.9 in
30 mm / 1.18 in
4 mm / 0.16 in
5 mm / 0.2 in
None



Ultrasonic Transducer (UT) Thickness Gauge

For wall thickness measurements

Specifications	
Manufacturer	Voliro AG
Payload length	32 cm / 12.6 in
Payload weight	0.62 kg / 1.37 lbs
Compliant with	EN 12668-1 and ISO 16831:2012
Test mode	Peak to peak, single peak
Channels	Single
Data visualization	Live A-Scan displayed in the Voliro App
Detection mode	Flank, peak, max cohort
Default transducer	
Operating frequency	4 MHz
Operating temperature	0 - 60 °C / 32 - 140 °F
Measurement mode	Compression wave
Diameter	10 mm / 0.4 in
Elements	Dual-element
Thickness range	2 – 150 mm / 0.08 – 5.9 in
Couplant	Water-based gel
Resolution	0.06 mm / 0.002 in

Transducer can be swapped to a transducer with a different frequency



Ultrasonic Transducer (UT) High Temperature Thickness Gauge

For wall thickness measurements

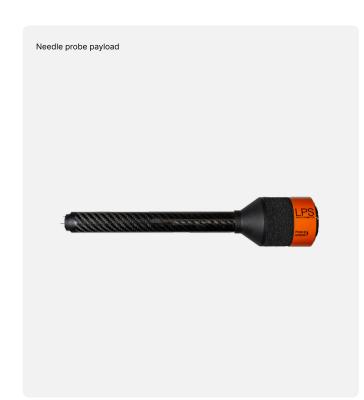
Specifications	
Manufacturer	Voliro AG
Payload length	32 cm / 12.6 in
Payload weight	0.62 kg / 1.37 lbs
Compliant with	EN 12668-1 and ISO 16831:2012
Test mode	Peak to peak, single peak
Channels	Single
Data visualization	Live A-Scan displayed in the Voliro App
Detection mode	Flank, peak, max cohort
Default transducer	
Operating frequency	5 MHz
Operating temperature	0 - 260 °C / 32 - 500 °F
Measurement mode	Compression wave
Diameter	8 mm / 0.3 in
Elements	Dual-element
Thickness range (in steel)	2 – 150 mm / 0.08 – 5.9 in
Echo to echo range (in steel)	2.5 – 50 mm / 0.1 – 2 in
Natural focus depth	10 mm / 0.394 in
Couplant	Extended temperature ultrasonic couplant
Resolution	0.06 mm / 0.002 in

Transducer can be swapped to a transducer with a different frequency



Dry Film Thickness (DFT) Gauge For coating thickness measurements

Voliro AG
32 cm / 12.6 in
0.27 kg / 0.6 lbs
EN ISO 1461, 2064, 2178, 2360, 2808, 3882,
ASTM B 244, B 499, D 7091, E 376
F: Magnetic induction for coating thickness on ferrous metals
N: Eddy current for coating thickness on non-ferrous metal
F: 0 - 1.5 mm / 0 - 60 mils
N: 0 - 0.7 mm / 0 - 30 mils







Wind Turbine LPS Tester

For full circuit resistance measurements

Specifications	
Manufacturer	Voliro AG
Payload length	32 cm / 12.6 in
Payload weight	0.10 kg / 0.22 lbs
Max. cable weight	0.66 kg / 1.46 lbs
Ohmmeter specifications	
Device type	Micro-Ohmmeter VG-BAT-150 special
Manufacturer	Mostec
Compliant with	EN 62305-3
Measurement method	4-wire measurement
Measurement current	0.30 A (for resistances <20 Ω)
Measurement range	0.001-1000 Ω
Resolution	0.01 mΩ
Max. voltage	24 V
Max. inspection height	250 m / 820 ft AGL
Turbine rotor orientation	Any, single stop inspection possible



