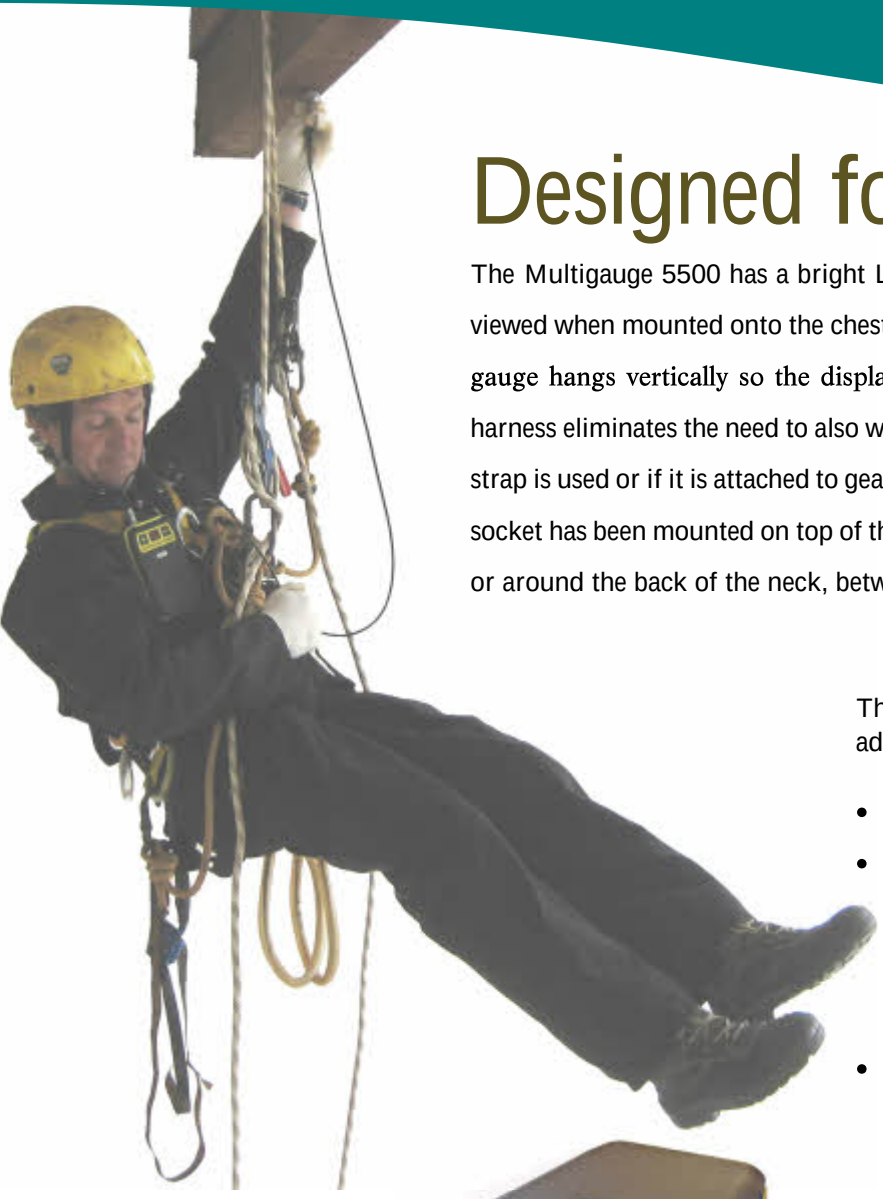
Ultrasonic Thickness Gauge



Designed for Rope Access

The Multigauge 5500 has a bright LED display on the top of the gauge which can be easily viewed when mounted onto the chest harness straps. The clever mounting system ensures the gauge hangs vertically so the display is always visible. Mounting the gauge onto the chest harness eliminates the need to also wear a belt and avoids the gauge swinging around if a neck strap is used or if it is attached to gear loops, preventing damage to the gauge. The probe cable socket has been mounted on top of the gauge so the probe can be easily stored in a top pocket, or around the back of the neck, between measurements.

Harness Clip

Multigauge 5500

The Multigauge 5500 is also equipped with the following additional features:

- Multiple Echo to eliminate coating thickness.
- IPR (Intelligent Probe Recognition) to automatically adjust settings in the gauge at the same time as transmitting recognition data, resulting in a perfectly matched probe and gauge for enhanced performance.
- AMVS (Automatic Measurement Verification System) which ensures only true measurements are displayed, even on the most heavily corroded metals.
- Coating Plus+ allows measurements to be taken through coatings up to 20 mm thick, depending on the coating type.
- No zeroing is required.

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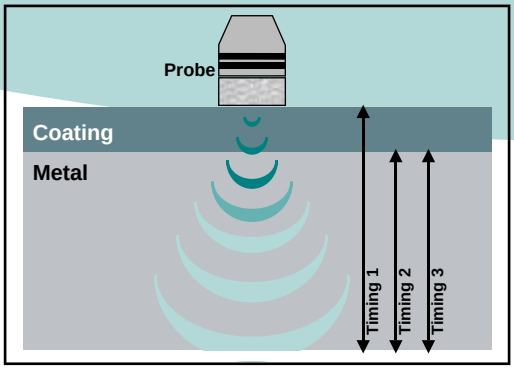
About Triple Echo



All Ultrasonic Thickness Gauges should be calibrated to the velocity of sound of the material being measured. Coatings have a different velocity of sound than metal and it is important they are not included in the measurement. Triple Echo ensures all coatings are completely eliminated from the measurement.

How it works:

A transmitted ultrasound pulse travels though both the coating and the metal and reflects from the back wall. The returned echo then reverberates within the metal, with only a small portion of the echo travelling back through the coating each time. The timing between the small echoes gives us the timing of the echoes within the metal, which relate to the metal thickness. The returned echoes need not be consecutive as the gauge will interpret them automatically and calculate the thickness. A minimum of three echoes are checked each time. This is referred to as the Automatic Measurement Verification System (AMVS).

Specification

Sound Velocity Range	*From 1000 m/s to 8000 m/s (0.0394 in/µs to 0.3150 in/µs)*		
Single Crystal Soft Faced Probe Options	*2.25 MHz*	*3.5 MHz*	*5 MHz*
Probe Measurement Range	*3 - 250 mm (0.120" to 10")*	*2 - 150 mm (0.080" to 6")*	*1 - 50 mm (0.040" to 2")*
Probe Sizes	*13 mm (0.5") & 19 mm (0.75")*	*13 mm (0.5")*	*6 mm (0.25") & 13 mm (0.5")*
Resolution	*0.1 mm (0.005") or 0.05 mm (0.002")*		
Accuracy	*± 0.1 mm (0.005") or ± 0.05 mm (0.002")*		
Display	*Multigauge 5500 - Red 4 character 7 segment LED*		
Batteries	*3 x disposable AA alkaline batteries or rechargeable NiMH / NiCD*		
Battery Life	*20 Hours continuous use using alkaline batteries*		
Gauge Dimensions	*147 mm x 90 mm x 28 mm (5.75" X 3.5" X 1")*		
Gauge Weight	*Multigauge 5500 - 320 g (11.3 ounces) including batteries*		
Environmental	*Case rated to IP65. RoHS and WEEE compliant*		
Operating Temperature	*-10°C to +50°C (14°F to 122°F)*		
Storage Temperature	*-10°C to +60°C (14°F to 140°F)*		

Tritex Multigauges are manufactured to comply with British Standard BS EN 15317:2007, which covers the characterisation and verification of ultrasonic thickness measuring equipment.

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Kit Contents:

Gauge, Probe, Cable, Spare Membranes, Membrane Oil, Ultrasonic Gel, 15 mm Test Block, Membrane Key, Manual, Calibration Certificate, Carry Case. Multigauge 5500 also has a belt clip.

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