



# Welaptega Rope Measurement System

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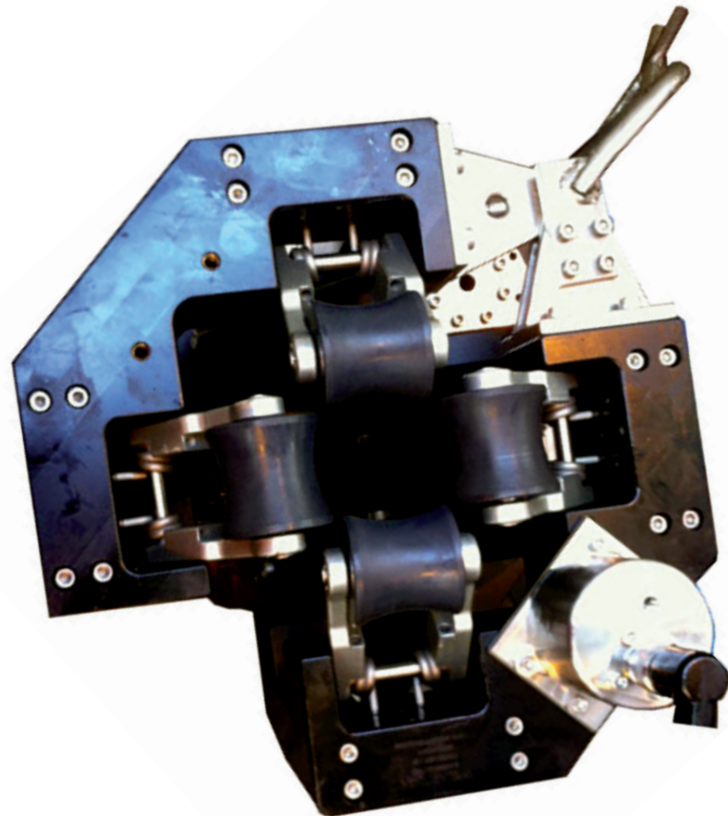
The RMS identifies changes in the cross-sectional geometry of wire and fibre ropes to identify symptoms of deterioration which could lead to failure. The RMS frame is towed by a ROV along sections of rope recording video footage of the entire rope surface as it moves. The video signal is transmitted to a topside data-logger that uses algorithms to measure the rope at approximately 50 mm increments to build a profile of the rope's geometry in its entirety.

## Applications

- UWILD wire and fibre rope inspection (external)
- Class survey wire and fibre rope inspection (external)
- Wire & fibre rope diameter measurement

## Features

- RMS takes measurements while mooring ropes are in water and in service
- Removes marine growth by using rollers, brushes, and highpressure water
- Provides a 360 degree close visual inspection of the exterior of the rope
- Rope inspection occurs without impacting production
- Measures rope length for creep monitoring
- Includes data sensors to measure line angles and depth location of anomalies
- Designed in consultation with rope manufacturers, installers and platform operators



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## Specifications



**WELAPTEGA**

an Ashtead Technology company

System components	Light-weight acetal tool frame Two fail-safes (fail-safe open and shear pin) ensure tool is always retrieveable Built-in brush and roller cleaning system with optional high pressure water jet cleaning system to remove marine growth High-resolution video camera array Built-in LED lighting to enhance video images of the rope's surface Digital recording system Image analysis system
Deployment requirements	Work-class ROV Four video channels

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