MISTRAS Be a step ahead

Application Brief

Advanced Ship Hull Inspection Solutions

In the maritime industry, vessel safety and operational efficiency hinge on the integrity of ship hulls. MISTRAS Group (NYSE: MG) is ABS-accredited for ship hull non-destructive testing (NDT) inspections, helping maritime operators detect issues before structural integrity is compromised.

Leveraging decades of expertise and innovative methodologies, MISTRAS offers solutions for metallic & non-metallic hulls on commercial vessels, yachts, and more.

Cutting-Edge Inspection Services

Our proprietary Large Structure Inspection (LSI) technology and robust portfolio of traditional and advanced NDT techniques help safeguard ship hulls from corrosion, pitting, and other forms of deterioration.

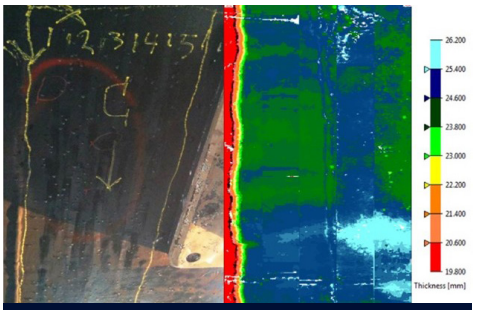
- **Rapid Hull Screening:** Assess large areas quickly with detailed ultrasonic measurements, identifying structural vulnerabilities in real time.
- **Ultrasonic Phased Array Probes:** Our certified experts use phased array methods to produce high-resolution thickness measurements, corrosion maps, and detailed pitting detection. Localized and general thickness reductions can be identified with high accuracy.
- **Structural Integrity Monitoring:** MISTRAS' non-intrusive acoustic emission (AE) monitoring technology has been proven to effectively detect active corrosion and cracking in tanker ships.
- **Versatility Across Materials:** Effective solutions for both metallic and composite structures.

Advantages for Maritime Operators

Working with an experienced industry leader like MISTRAS helps maritime operators maximize the integrity of their critical assets. Other advantages include:

- **ABS-Accredited Assurance:** Certified compliance with internationally-recognized inspection standards
- **Enhanced Safety & Reliability:** Early detection of structural issues prevents costly failures and safeguards crew and passengers.
- **Optimized Maintenance & Cost Savings:** Informed decisions help reduce repair expenses and downtime.

UT spot thickness performed portside on submerged bottom hull plates



Aluminum hull Phased Array corrosion mapping

Steer Your Ship Towards Safety

Call +1.833.MISTRAS

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