



MISTRAS

**ONE-SOURCE FOR
TANK & TERMINAL
PROTECTION SOLUTIONS**




As an industry-leading, one-source provider of asset protection solutions, MISTRAS Group (NYSE:MG) is uniquely equipped to manage the inspection, engineering, maintenance, and monitoring of your tanks and terminals.

MISTRAS' Tank Inspection Center of Excellence (COE) provides comprehensive testing programs adhering to API, STI, UL-142, and AWWA standards, among others. Our dedicated staff of terminal experts ensure all components of your terminal manor stay in operation, in compliance, and in safe working condition.

Backed by our global knowledge and resource network, MISTRAS' trained and certified technicians perform all aspects of tank and terminal asset protection services, including:

- Full Range Of Traditional & Advanced Non-Destructive Testing/Evaluation (NDT/NDE) Technologies
- Electronic Reporting
- Inspections And Maintenance In Hard-To-Reach Areas
- Mechanical Services
- Engineering Services

Overview

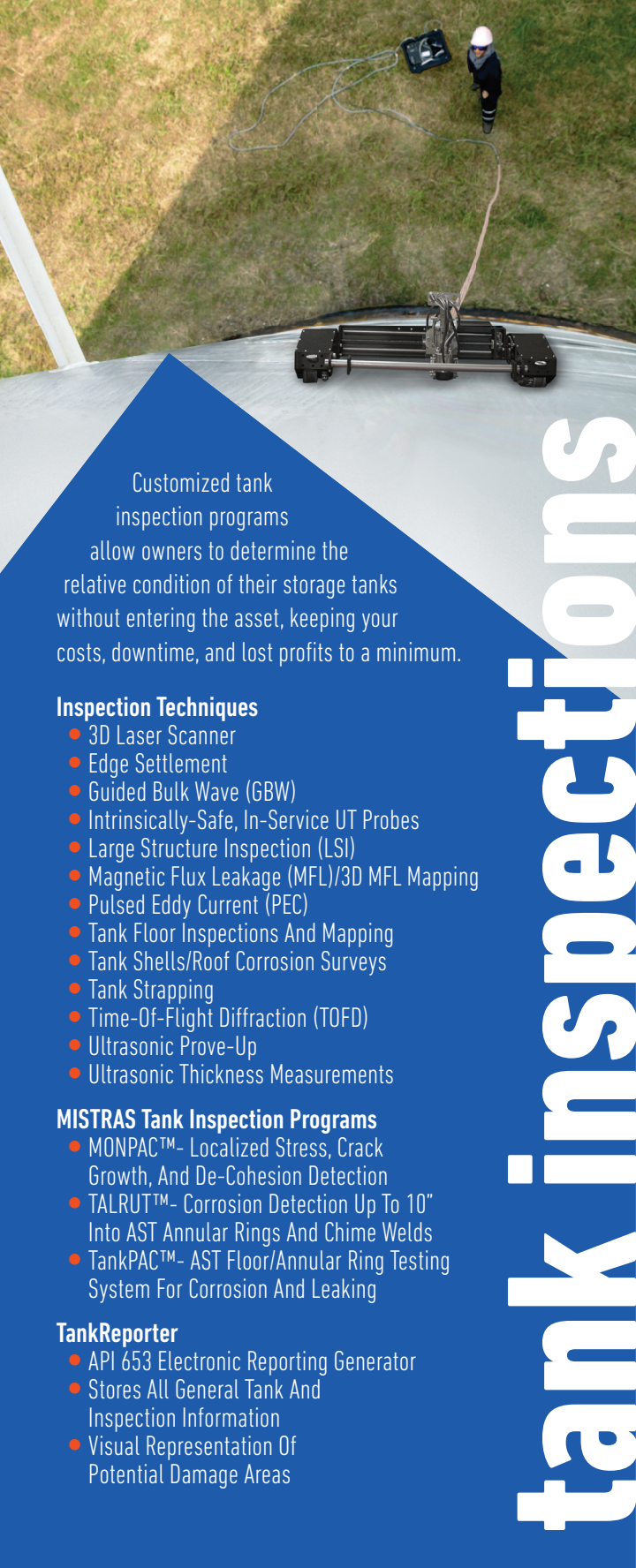


Our engineering services help to ensure that your tanks & terminals are properly-designed, operating efficiently, and free of mechanical integrity concerns.

Engineering Services

- Allowable Pressure Analysis
- API 620 Design/Corrosion Calculation
- Corrosion Evaluations
- Dike Slope And Volume Survey
- Finite Element Analysis (FEA)
- Fitness-For-Service (FFS) Evaluations
- Floating Roof Buoyancy Analysis
- Foundation Settlement Analysis
- Fracture Mechanics Analysis
- Frangible Roof Evaluations
- Hydro-Test Exemptions
- Metallurgical Evaluation
- Repair/Alteration Scope Of Work
- Risk-Based Inspection (RBI) Evaluations
- Roof Hitch Analysis
- Shell & Roof Deflection Analysis
- Spill Prevention, Control, And Countermeasure (SPCC) Inspections
- Venting Analysis
- Verticality/Plumbness/Roundness Evaluation
- Wind And Seismic Analysis

engineering services



Customized tank inspection programs allow owners to determine the relative condition of their storage tanks without entering the asset, keeping your costs, downtime, and lost profits to a minimum.

Inspection Techniques

- 3D Laser Scanner
- Edge Settlement
- Guided Bulk Wave (GBW)
- Intrinsically-Safe, In-Service UT Probes
- Large Structure Inspection (LSI)
- Magnetic Flux Leakage (MFL)/3D MFL Mapping
- Pulsed Eddy Current (PEC)
- Tank Floor Inspections And Mapping
- Tank Shells/Roof Corrosion Surveys
- Tank Strapping
- Time-Of-Flight Diffraction (TOFD)
- Ultrasonic Prove-Up
- Ultrasonic Thickness Measurements

MISTRAS Tank Inspection Programs

- MONPAC™- Localized Stress, Crack Growth, And De-Cohesion Detection
- TALRUT™- Corrosion Detection Up To 10" Into AST Annular Rings And Chime Welds
- TankPAC™- AST Floor/Annular Ring Testing System For Corrosion And Leaking

TankReporter

- API 653 Electronic Reporting Generator
- Stores All General Tank And Inspection Information
- Visual Representation Of Potential Damage Areas

tank inspections



terminal inspections

Our terminal inspections cover every component in your terminal manor. We conduct inspections to API 510 & 570 codes, help you develop follow-up inspection dates, and calculate long-term and short-term corrosion rates on piping and vessels. We'll also prepare final reports and recommendations on inspection results and any necessary repairs.

Terminal Components Inspected

- Absorbers
- Dock Loading Arms
- Filters
- Manifolds
- Piping
- Strainers
- Valves

Inspection Techniques

- Hardness Testing
- Large Structure Inspection (LSI)
- Liquid Penetrant
- Magnetic Particle
- Positive Material Identification (PMI)
- Shear Wave
- Ultrasonic Thickness



Multi-disciplined technicians can conduct inspections and perform light mechanical services where necessary, to get your assets back into service as quickly as possible.

Mechanical Services

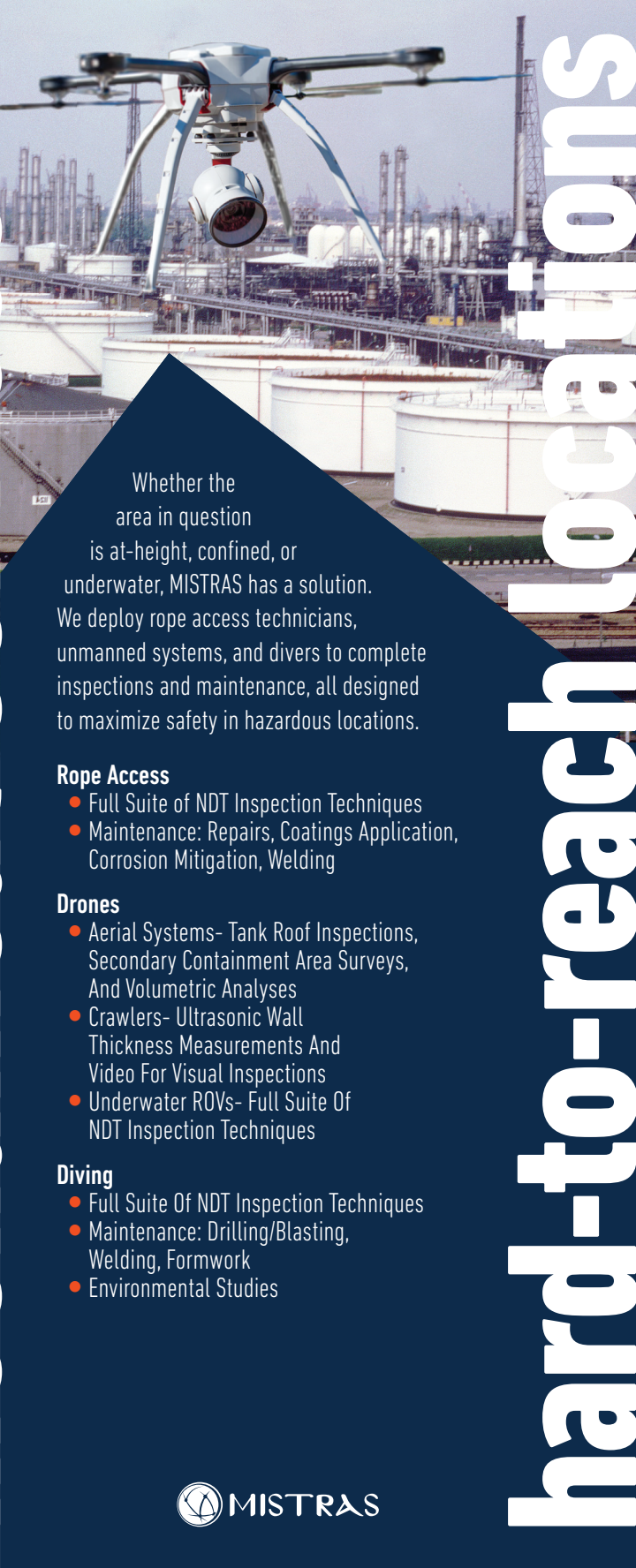
- Abrasive Blasting
- Baking Soda Blasting
- Cleaner/Greener Slurry Blast
- Coatings
- Degassing
- General Power Tooling
- Insulation Installation & Removal
- Surface Preparation
- Ultra-High Pressure (UHP) Water Blasting

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mechanical services



hard-to-reach locations

Whether the area in question is at-height, confined, or underwater, MISTRAS has a solution. We deploy rope access technicians, unmanned systems, and divers to complete inspections and maintenance, all designed to maximize safety in hazardous locations.

Rope Access

- Full Suite of NDT Inspection Techniques
- Maintenance: Repairs, Coatings Application, Corrosion Mitigation, Welding

Drones

- Aerial Systems- Tank Roof Inspections, Secondary Containment Area Surveys, And Volumetric Analyses
- Crawlers- Ultrasonic Wall Thickness Measurements And Video For Visual Inspections
- Underwater ROVs- Full Suite Of NDT Inspection Techniques

Diving

- Full Suite Of NDT Inspection Techniques
- Maintenance: Drilling/Blasting, Welding, Formwork
- Environmental Studies



MISTRAS



| INSPECTIONS |



| ENGINEERING
SERVICES |



| ELECTRONIC
REPORTING |



| HARD-TO-REACH
LOCATIONS |



| MECHANICAL
SERVICES |



TANK INSPECTION COE
Center of Excellence



SCAN FOR MORE INFO



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Global Reach!

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