



ROPE ACCESS SERVICES FOR THE PETROCHEMICAL INDUSTRY

ropeworks®

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Petrochemical plants need access to difficult locations for inspection, maintenance and mechanical tasks. Traditional access methods such as scaffolding, crane baskets and man lifts increase risk exposure, crowd work areas and add significant expense to projects.

The MISTRAS Ropeworks Center of Excellence (COE) provides industrial rope access teams trained to perform maintenance and inspection services efficiently in the petrochemical plant setting at a significant reduction of cost and risk to personnel. MISTRAS has been inspecting and maintaining critical infrastructure using rope access for over a decade. Our employees are chosen for their technical expertise, positive attitude and their commitment to excellence. Each team member undergoes extensive



technical training in rope access, specialized maintenance and inspection disciplines.

INSPECTION SERVICES

Rope access is an efficient method for deploying and performing non-destructive testing (NDT). The highly trained technicians at MISTRAS safely deliver a full line of traditional and advanced services via rope access.

TRADITIONAL NDT SERVICES

- Visual
- Ultrasonic
- Liquid penetrant
- Radiography
- Magnetic particle



ADVANCED NDT SERVICES

- Automated Erosion/Corrosion Scans
- Phased Array
- Digital Radiography
- Eddy Current
- Pulsed Eddy Current
- Acoustic Emission and Monitoring
- Ground Penetrating Radar
- Guided Wave

MAINTENANCE SERVICES

- Insulation repair
- Corrosion mitigation
- Coatings application
- Welding
- Structural repairs
- Flange bolting

KEY BENEFITS OF ROPE ACCESS



REDUCE COSTS

Rope access generates cost savings in many ways, such as eliminating scaffolding and reducing the total project man-hours. Risk exposure is reduced through the deployment of small crews with high levels of training specifically tailored to perform work at height.

ACCESS THE INACCESSIBLE

Rope access is often the only viable means of accessing a specific location on a structure or inside a vessel. Rope access technicians can climb, descend and move horizontally, all with a minimum amount of gear. MISTRAS technicians work safely and effectively in the most difficult to reach locations.

MINIMIZE DISRUPTION

MISTRAS rope access teams can be deployed in a fraction of the time required for traditional scaffolding without creating congestion below or above the work area. MISTRAS technicians can perform initial surveys, collect detailed inspection data and perform maintenance tasks. The same team can often facilitate repairs on discovery items within the same mobilization, significantly reducing the impact on shutdown schedules.

IMPROVE SAFETY

MISTRAS rope access technicians have an exemplary safety record. Each technician receives specialized rescue training and is assessed for safety and competence by a certified evaluator. Our teams work in accordance with industry standards and take a proactive approach to hazard identification and risk management to produce a safe and compliant system for work at height.

CASE STUDY:

INSPECTION BY ROPE ACCESS

CUSTOMER: Major US Refinery, 475,000 BPD

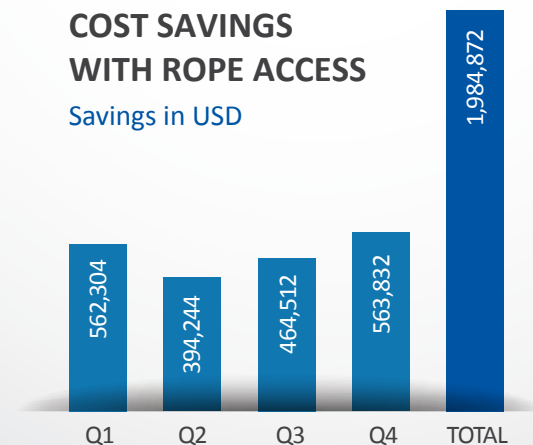
RESULTS: A cost analysis at a major U.S. refinery illustrates the potential savings of rope access. By analyzing multiple variables – including scaffolding costs and increased production rates – plant managers realized cost savings of \$1.98 million by introducing one full-time rope access inspection crew that completed 2,598 UT Corrosion Monitoring Locations (CMLs).

The savings offset the higher cost of staffing three specialized team members. Rope Access also lowers impact to daily operations resulting in additional cost savings and productivity.

This case study shows significant savings can be realized by deploying rope access within 30 feet of the ground where the majority of inspection and maintenance work takes place, rather than limiting its use to the tall vessels and structures only.

COST SAVINGS WITH ROPE ACCESS

Savings in USD



A FEW OF THE INDUSTRIES SERVED BY MISTRAS



PETROCHEM



WIND ENERGY



BRIDGE & HYDRO



ICONIC STRUCTURES

MISTRAS is a leading global provider of technology-enabled asset protection solutions. The MISTRAS Ropeworks Center of Excellence (COE) can help you meet your department's performance goals while spending less money and improving safety. Ask your MISTRAS representative about the Ropeworks COE.

MISTRAS Ropeworks is a industry-leading rope access training and equipment provider with dedicated training centers in the US and UK (Reno, Anchorage, Houston and South Wales). We have successfully certified thousands of technicians to third-party IRATA and SPRAT standards. Through our independent testing of equipment and the continuous evolution of our training program, Ropeworks has established itself as a leader.



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MISTRAS Ropeworks is an audited training member of the Industrial Rope Access Trade Association (IRATA) and is a sustaining member of the Society of Professional Rope Access Technicians (SPRAT).

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