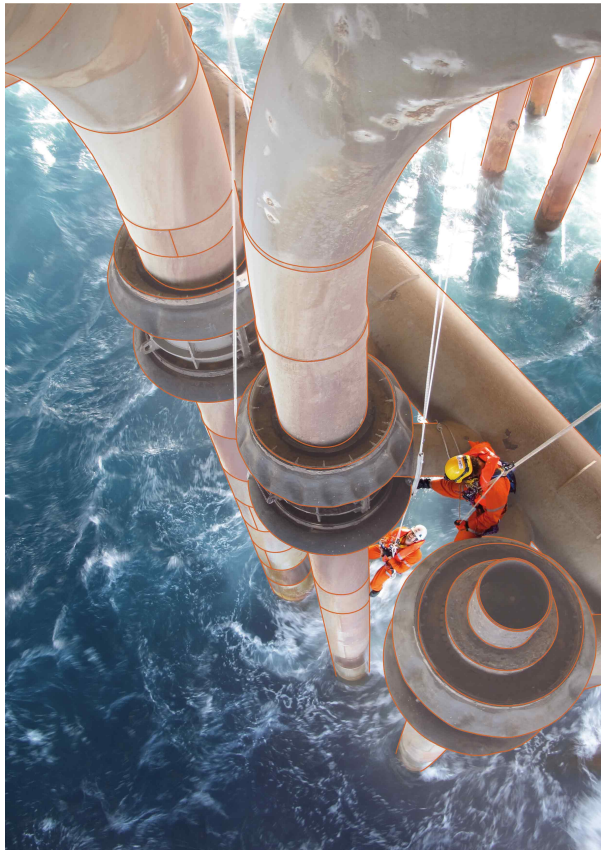


# Riser Inspection and Caisson Inspection

Offshore inspection services for pipelines and risers are growing as the worldwide infrastructure of pipelines and platforms age. Moreover, regulations today require periodic inspections for corrosion on splash-zone risers, caissons, conductors and spoil pieces of sub-sea pipelines because coatings degrade and cathodic protection becomes inefficient. It is highly recommended that these areas are inspected to detect corrosion prior to failure. Traditional visual and UT wall thickness techniques are often not practical due to restricted access, and limited information is obtained using these techniques. Advanced NDT methods for rig inspections are required to limit human intervention in high-risk areas and to obtain better inspection data for further analysis so that structural-integrity case studies can take place.



## THE Applus+ SOLUTION

Managing and safeguarding the integrity of client assets has been a prime concern for all operators of refineries, chemical plants and power plants for decades.

For over 75 years, Applus+ has been a trusted partner in providing customers with clear on-site data via its high-tech NDT offshore services. Working closely with our clients

gives us a full understanding of their requirements, allowing Applus+ to tailor the NDT offshore inspection solution to the specific task.

Applus+, with its own Application Centre, can custom build specialised robotic tooling for a particular offshore inspection project, adding value to our offshore inspections whilst helping the client to reduce costs.

For riser inspections, we offer numerous specialist products, including: internal visual inspection tools; offshore drone for external HD visual inspection; long-range ultrasonic; pulsed eddy current; tethered, intelligent pigging-inspection solutions; automated corrosion mapping; automated TOFD systems; sub-sea ACFM; and riser cleaning and inspection tools.

Applus+ has numerous patents dating back to 1940 - a testament to our commitment to research and development in the field of non-destructive testing.

## Target customers

Statistical data collected over the last 30 years indicate corrosion as the main cause of failure in risers.

Existing offshore assets are nearing the end of their serviceable life. Companies wanting to extend the life of their assets are deploying comprehensive offshore inspection and maintenance programmes.

Statutory regulations also require assets to be inspected on a more regular basis to meet the rigorous safety and environmental requirements and enable an offshore asset to operate safely throughout its extended life-cycle.

## Key customer benefits

Advantages of using our different riser inspection tooling systems include:

- Tooling is custom-built to meet client requirements
- Improved safety and cost savings by eliminating the need to work within the splash-zone area
- Significant time/efficiency savings resulting from automated systems
- No costly access requirements
- Reduced down-time of plant
- Ultra high-definition footage for visual offshore inspection
- 100% surface area coverage
- Quantitative data for ultrasonic tooling
- Qualitative data for long-range ultrasonic and pulsed eddy current
- HP cleaning and visual/ultrasonic inspection with a single tool

- Inspection possible through thick coatings and marine growth
- Offshore drone inspection systems designed to inspect hard-to-access and confined areas

#### Key Customer Benefits

- Complies with current environmental legislation
- Verifies the condition of installations and contamination monitoring systems and purifiers
- Reduces the risk of environmental disaster