



CASE STUDY

RESTORING CORROSION MONITORING ACCESS THROUGH SEIZED PLUG REMOVAL

Key Takeaways

By combining specialist tooling with controlled techniques, we restore functionality, protect asset integrity, and maintain continuous corrosion monitoring both onshore and offshore - delivering targeted in-situ machining that avoids costly replacement.

Results & Benefits

- *Verified fitting integrity*
- *Increased on-site productivity*
- *Lower costs vs replacement*
- *Reduced downtime*
- *Continuous monitoring maintained*



The Challenge

MOSS was engaged to remove seized plugs from corrosion monitoring access fittings, where loss of maintenance access was impacting monitoring capability and posing integrity risks.

Conventional solutions required full component replacement - driving cost, downtime, and disruption. The scope was further complicated by varied plug configurations, restricted access, and the need to preserve fitting and pipework integrity.

Our Approach

MOSS developed a tailored machining solution designed specifically for the safe removal of seized plugs across a range of configurations.

A series of controlled workshop trials were undertaken to determine the optimal tooling, machining parameters, and equipment setup. Enabling the development of a versatile cutting tool kit and mounting arrangement suitable for both air and electric drive systems, ensuring adaptability.

Engineered with a primary focus on preserving the integrity of the access fitting body throughout the machining process.

Implementation

MOSS mobilised the precision machining equipment designed to operate within restricted access environments. Specially designed mounting arrangements ensured secure alignment and stability during machining, allowing accurate removal of seized plugs without damaging the parent fitting.

The machining process and tooling selection were carefully controlled to eliminate risk to the fitting body, maintaining full structural and pressure integrity of the system.