ART Center

ESP maintenance services

APPLICATIONS
- ESP assembly, testing, and maintenance
- Mechanical and electrical repairs
- Fit-for-application ESP system
- Dismantle, inspection, and failure analysis

ADVANTAGES
- Extends life cycle of ESP system
- Lowers total cost of ownership
- Follows best-in-class QA/QC processes
- Determines cause of run life failure
- Reduces downtime with quick turnaround

Maintenance, repair, and testing is vital for the performance and longevity of ESP systems. The goal of each assembly, repair, and test (ART) center is to extend run life, ensure maximum reservoir production, and reduce the total cost of ownership of Schlumberger ESP systems for operators.

Global ESP maintenance network
As part of our commitment to provide world-class service, Schlumberger operates a global network of ART centers to keep ESP systems running at peak levels. Each ART center follows a quality control plan developed by Schlumberger engineers to ensure zero artificial lift product defects.

From diagnosis through remanufacturing
Expert manufacturing engineers and ESP technicians have decades of experience in the repair and remanufacturing of ESP components. Each rebuild or refurbishment of a Schlumberger ESP system is supported with standardized diagnostic techniques, original Schlumberger parts, and the highest standards of workmanship. No matter the downhole conditions, ART center technicians can help optimize production and extend ESP run life throughout the life of the reservoir.

Quick turnaround
Production is critical for operators, and Schlumberger is committed to delivering reliable artificial lift equipment safely and on-time. Each ART center and regional distribution center maintains the inventory and equipment needed to minimize production downtime for operators while their ESP systems are being repaired.

Dismantle, inspection, and failure analysis
ESP systems fail for many reasons, and it is critical to understand and address the root causes of failure to consistently meet and exceed run life and production targets. Expert product failure analysis is an integral part of the Schlumberger ART center’s continuous improvement philosophy, and Schlumberger engineers and technicians use sophisticated processes and state-of-the-art equipment to determine why an ESP component fails and to implement the most effective mitigation and preventative measures. ART center failure analysis investigations are thorough and provide specific, practical recommendations to operators.

Best-in-class ESP testing, quality assurance, and quality control
In an effort to eliminate potential costly delays during installation and ensure maximum run life, Schlumberger maintains a global fleet of calibrated horizontal pumping test systems to hydraulically test individual components—such as main cable systems, motors, pumps, and sensors—and confirm that design specifications are met. Schlumberger conducts comprehensive factory acceptance tests for ESP subsystems and offers additional full system integration testing when recommended.

Schlumberger ESP system integration testing is available at ART center locations in Singapore; Bartlesville, US; and Inverurie, UK. Each system integration test involves assembling the ESP system within a fully instrumented test well and running the ESP under rigorous test conditions to validate component functionality and operation.

Highly trained and experienced ART center technicians
Schlumberger makes substantial investments in employee training to guarantee we have the best technical staff in the industry. Our technical competency assurance program and standardized tools, processes, and procedures enable us to deliver high-quality ESP systems that run longer and maximize production.