Rod Lift
Advancing sucker rod pumping performance
Within the artificial lift industry, Schlumberger has established a leading position in electric submersible pump and gas lift technology. In recent years, through acquisitions in rod lift and progressing cavity pumps, we have created a complete artificial lift offering for the life of the well. We will continue to focus on the evolution of hardware components and integrated systems to set new standards for performance, software, and modeling, as well as control and automation.

In 2012, Schlumberger initiated a strategy to bring together the leading sucker rod pumping companies to build the best-quality, most cost-effective customer-focused team to serve the industry. Each of the companies that make up the new team has extensive rod pumping experience and a strong commitment to customer service. Together, these companies provide worldwide coverage and a full portfolio of products and services.

Our rod lift team is committed to advancing sucker rod pumping performance through technology, innovation, and leadership in automation by employing an overall system engineering approach. With an established global footprint, Schlumberger is now able to provide expertise across the entire lift portfolio, including custom training and fit-for-purpose solutions, and be a technical partner in the production domain.

All of our products are designed and manufactured to API standards and all our manufacturing locations are ISO certified.
Schlumberger’s pumping equipment is engineered using proven field designs and extensive field experience. We offer a comprehensive range of pumping units that includes all makes and models as well as spare parts. Each pumping unit is fully assembled and tested prior to shipping. Testing documentation and operator’s manuals are included with every unit.

Pumping unit manufacturing follows Schlumberger’s rigorous quality assurance and control processes to ensure adherence to traceability and engineering specifications.

All of our pumping units are designed and manufactured to API standards, and all of our manufacturing plants are ISO-certified.

**Shores conventional crank-balanced pumping unit**
- Reliable and cost effective pumping units are available for quick delivery.

**Shores beam-balanced pumping unit**
- A full range of beam-balanced pumping units are designed for shallow, lower volume well applications.

**TorqMax* advanced-geometry pumping unit**
- Advanced geometry alternative helps reduce torque and lower prime mover horsepower requirements, thus reducing lifting costs.

**FlexLift* low-profile pumping unit**
- Low-profile design allows traveling circular irrigation systems to pass overhead without interrupting well operations.

**HG curved-beam pumping unit**
- Two counterweights—conventional crank weight and adjustable beam weight at the end of the engineered curved walking beam—increase energy efficiency in a number of applications.

**Hydraulic pumping unit**
- Hydraulically powered rod reciprocating system features a leak-free design and an unmatched long stroke to quickly achieve production efficiency.
Rods and Don-Nan downhole equipment

Meet your production requirements with a wide variety of downhole products including sucker rods, polished rods, downhole pumps, gas separators, and coiled tubing. A team of industry specialists provides design and troubleshooting expertise to ensure your operation runs at peak performance.

All of our downhole pumps are designed and manufactured to API standards, and all of our manufacturing plants are ISO-certified.

**Sucker rods and polished rods**
- Keep operations running efficiently with high-quality sucker rods and polished rods manufactured using stringent protocols, including field inspections.

**Sinker bars and centralizers**
- Reduce negative loadings on the rod string and minimize rod string, tubing, and casing wear by using custom-designed sinker bars and centralizers.

**Tubing anchors**
- Stabilize tubing with standard and specialty anchors for slimhole applications.

**Pumps**
- Increase efficiency with expertly designed and manufactured sucker rod pumps.

**Gas separators**
- Reroute gas with a downhole separator and greatly reduce gas interference on the pump.

**Coiled tubing**
- Meet your requirements for hang-on production strings, workstrings, stimulation, drilling, cleanouts, plug drillouts, and other applications with a range of coiled tubing (CT) products.
Wellhead and surface equipment

Lift packages include all the surface equipment used to hang the sucker rod string and downhole pump and to hook up the well to the flowline running to the tank battery. An extensive range of stuffing boxes, pumping flow tees, blowout preventers, pressure regulators and chokes, as well as valves and gauges, ensures the right equipment is available for your well.
Pumping unit parts

Keep operations up and running
Choose from an extensive stock of pumping unit parts for all makes and models.

Utilize in-stock and custom-fabricated concrete bases
Take advantage of a wide selection of portable concrete blocks ranging from horizontal vessel pillars, separator bases, and control panel bases to pumping unit model-T and model-O bases. We also fabricate custom blocks with specific anchor designs for applications such as H-pumps, cattle guards, extra-large pillars, and flare bases.

Optimize energy consumption with prime movers
Choose from a large selection of electric motor and gas engine prime movers and other accessories to complete your surface beam-pumping system. Depending on the rod pumping application, we will optimally size the prime mover to minimize your lifting cost. We also supply the appropriate sheaves and v-belts to connect the prime mover to the pumping unit.
Services

Full service for rod lift systems
We apply our decades of experience installing, inspecting, and repairing artificial lift pumping units and related equipment to help you maintain production. Reliable, well-trained technicians are supported by a fleet of specialized rig-up trucks, cranes, bucket trucks, and haul trucks.

Unit installation and relocation
The team can install new units or relocate existing ones safely and efficiently. Working as a single organization provides greater selection and improved efficiency. Full-service unit installations are available for all makes and models.

Reconditioned units
Reconditioned units are available for various locations. All units are inspected to ensure good working order and component functionality.

Unit repairs
Service is provided on all makes and models of new and legacy pumping units. An extensive inventory of parts enables quick and economical repairs—the result of having the proper equipment on location when you need it.

Unit preventive maintenance
Protect your investment in pumping unit equipment through inspection services that can maximize run time and equipment life span while minimizing annual repair costs. Inspections can be tailored to your unique requirements, and repair recommendations are filtered to give you sensible options that suit your budget.
Our engineering and optimization services are tailored for each well, taking into consideration unique field requirements. The rod lift team includes industry-recognized experts, whose specialties range from metallurgy and predictive design to individual artificial lift components and complete systems. We provide solutions that are customized to help you improve production and decrease downtime.

**Total system solutions**
- Rod lift designs to determine effectiveness and provide the best design for longer life in both vertical and deviated wells.

**Automation**
- Rod pump controller (RPC) for reliable and economical pumpoff control in sucker rod pump systems through advanced modeling.
- Highly reliable downhole and surface protection variable speed drive (VSD) system to maximize production and equipment performance, capable of generating a dynacard without the requirement of a load cell.
- Instrumentation and automation technology for proven benefits in production and reduced operating costs, resulting in increasing use on rod lift wells.

**Surface solutions**
- Correct configurations of surface components—including pumping units, prime movers, and wellhead components—to get your well online and producing.

**Downhole solutions**
- High-quality downhole systems for rod lift operations.

**Engineering design packages**
- Customized design packages for sucker rod lift installations using the latest commercially available software technology.
Rod lift training

Improve operational performance
Proper education and training play a key role in establishing and maintaining correct wellsite procedures and providing superior performance. Trained production, engineering, and field personnel, as well as well service contractors, can reduce risk, extend the life of well equipment, and increase production.

Onsite field training and supervision
- Introduce employees to basic training with classes tailored to your wells and specific equipment.

Technical support training
- Optimize rod-lifted wells and train engineers, production personnel, and well service contractor personnel.

Care and handling training
- Extend rod life and reduce premature rod failures through training in the correct handling, transportation, storage, installation, and makeup procedures for sucker rods.

Failure analysis reporting and training
- Resolve repeat failures in problematic wells and develop recommendations for immediate changes or future changes during the next well intervention.