

Reciprocating Downhole Pumps

Peak performance

Customer service and quality are at the heart of what we do. With GE you get innovative reciprocating downhole pumps for peak performance.

We lead by designing, manufacturing and servicing complete sucker rod pump packages. Backed by advanced engineering and product development, we support our solutions with experienced technical support and reliable local services from a global network of facilities.

We prioritize safety, whether in house or out in the field, making it an integral part of planning and executing every job we perform.

We're dedicated to quality, adhering to the most recent compliance standards and applying them across our organization to make sure our products meet your expectations, regardless of where you work.

And we're here to help. Our specialists are available to train, assist with technical inquiries, and guide you in choosing the right artificial lift system for your requirements.

Together with our customers, we overcome the pumping challenges of today and develop the advanced solutions of tomorrow.



Production Optimization

Innovative production processes and advanced software help us deliver the best in design, installation, optimization, and troubleshooting. We manufacture to the leading standards and specifications in the industry.

WellTrack™ Pump and Well Database

Knowing the story of your pump could mean the difference between oilfield success and failure. Our exclusive WellTrack Database gives you insight by conveniently storing details on any downhole configuration in one easy to access location. Use WellTrack to understand the history of your pumps from well to well and repair to repair. View installation and parts details, review failure rates and service history, forecast future maintenance, and track costs for improved decision making all the time.

In House Chrome Plating

At our in house chrome plating facility, we use the latest techniques to produce a hard, smooth and corrosion resistant coating that lets our barrels run where chrome plated products have traditionally not performed well. A proprietary high speed catalyst helps us achieve a high density of microcrack with low porosity. Premium hard chrome plating offers a minimum hardness of 67 to 70 HRC and minimum thickness of 0.003 inches.

Spray Welding

Our facilities use proven spray welding technique to deliver products with superior corrosion resistance and wearability. Our spray technique yields a dense and non permeable coating with minimum porosity. Our standard Q hard spray metal coating achieves a hardness greater than 58 HRC. We also offer Tungsten Carbide composite spray for increased wearability.

API and Specialty Pumps



We design specialty pumps that excel in a variety of well scenarios, including the most rigorous conditions. Choose from a variety of materials, sizes, and accessories to customize a pump that matches your individual downhole needs.



Big Bore Pump

Developed in collaboration with well producers, the Big Bore is our solution for thermal recovery or large-volume, heavy-oil production. Capable of producing more than 5,000 barrels (600 cubic meters) of fluid per day, the system is available in conventional or thermal designs and fits bore sizes from 3¼ to 7¾ inches. The Big Bore also gives operators the flexibility to choose from a variety of materials, making this pump suitable for virtually any conditions.



Gas Compressor Pump

The Gas Compressor Pump successfully pumps wells with high gas-to-oil ratios that have often been difficult to produce with other types of artificial lift systems. The heavy-duty pump includes a high-compression second chamber to reduce gas locking and compressive rod load stresses, and can be built from a variety of materials to protect against corrosive environments. Designed as a bottom hold-down, it can run at depths up to 15,000 feet depending on bore size and material.



Scale Pump

The Scale Pump is an economical solution for combating scale and gypsum in low-producing or marginal wells. Specialized coatings combat scale by minimizing buildup in pressure drop areas.



Frac Pump

Built specifically for handling hard-to-manage abrasives such as frac sand, formation sand, and formation fines, our Frac Pump is designed to prevent premature pump failure due to plunger and barrel seizure or scoring. The Frac Pump is available in several plunger-polymer configurations to meet most production challenges.

Plungers

We manufacture plungers in an assortment of materials and finishes, all of which meet strict API requirements. Plungers can be precision ground to size for a high-performing custom fit.



Monel Pin

The plunger comes with a Q-Hard and Tungsten Carbide composite coatings for enhanced hardness. Pin-ends crafted from the alloy Monel improve corrosion resistance over traditional pin-ends, allowing this plunger to run in deeper wells while avoiding pin breaks.



Pressure Activated

Recommended for high water-cut wells or for sand-laden fluids where lubrication is a concern, this grooved one-piece plunger includes tough, expandable rings to control leakage over the length of the plunger. Pressure-Activated Plungers are resistant to corrosion if EN plated and combats abrasion. They are available in 20, 40, or 60 rings.



One Piece Plunger

Our most popular design, as the one piece single-piece plunger can be used with any barrel. We coat outside diameter with Q-Hard for superior abrasion resistance and a minimum hardness of 58 HRC. We also offer a Tungsten Carbide composite coating for increased wear and abrasion resistance.



Combo

Designed like the Pressure-Activated Plunger and coated to the same specifications as the One Piece Q-Hard Plunger, the Combo Plunger moves all types of foreign materials, especially in high water-cut wells where friction may be an issue. Pressure-activated rings remove solids until worn, while the metal-to-metal seal prolongs pump life.

Barrels



Barrels are designed for maximum performance and extended life in a variety of well conditions, including varying degrees of abrasion, corrosion, scale, or high-cut water.



SupraChrome Steel

Base Material: AISI 1026 steel
Conditions: Extreme abrasion, mild corrosion

Hard chrome has superior hardness and wear resistance. An inside diameter hard-chrome plating offers excellent lubricity and facilitates fluid movement by preventing gypsum and scale residues from adhering to the interior surface of the barrel.

SupraChrome Brass

Base Material: AISI 443 (admiralty brass)
Conditions: Extreme abrasion, moderate corrosion, particularly in H₂S or CO₂

With chrome plated superior hardness and wear resistance, SupraChrome brass is the right choice for moderate corrosion H₂S or CO₂ environments.

Steel Nicarb

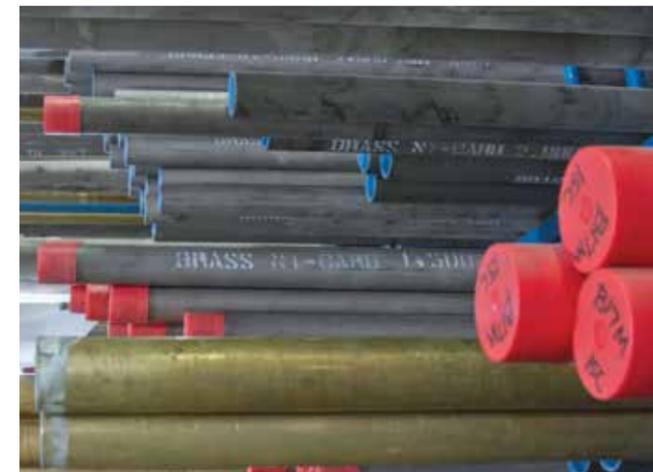
Base Material: AISI 1026 steel
Conditions: Moderate abrasion, high corrosion, and acid jobs

Completely coated with a protective composite plating of electroless nickel and silicon carbide, these barrels are resistant to corrosion and wear. Plate thicknesses of 0.0015-0.003 inches are available for different well conditions.

Brass Nicarb

Base Material: AISI 443 admiralty brass
Conditions: Moderate abrasion, severe corrosion, and acid jobs

Completely coated with a protective composite plating of electroless nickel and silicon carbide, these barrels are resistant to corrosion and wear. Plate thicknesses of 0.0015-0.003 inches are available for different well conditions.



Parts & Accessories



We specialize in parts and accessories that can be installed in your pump system to improve performance.



Ball-and-Seat Assemblies

Ball-and-seat assemblies are available in stainless steel, carbide, silicone nitride, and Wearloy. Assemblies are machined, fine lapped, polished, and vacuum tested for precise size and fit.



Cages and Fittings

Available in a variety of materials, sizes, and fits, our cages and fittings facilitate a non-turbulent flow in a variety of well conditions.



Top Seals

Top Seals prevent accumulation of solids, such as sand and sediment, between the stationary barrel and the pump hold down. Helps avoid pumps seizure in tubing that lead to expensive stripping jobs.



Hold-Downs

A full line of mechanical and cup hold-down assemblies facilitate pump function by ensuring the pump properly seats and seals in the wellbore.



Top Check Valves

Top check valves reduce gas locking and fluid pound. They hold back the hydrostatic head to reduce pressure on the traveling valve so it can open during downstroke.



On/Off Tool

Allows for the barrel and plunger be run together as an assembly into the well when the plunger OD is bigger than the ID of the tubing string.



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