ARTIFICIAL LIFT SOLUTIONS
FOR ENHANCED WELL PRODUCTION
Our mission is to deliver the highest client value with fit-for-purpose artificial lift technologies, products and services to the Oil & Gas industry that will minimize lifting costs and maximize our customer’s return on investment.
Borets has been around for more than 115 years with a long history of engineering innovation. Today we are the leading global provider of ESP systems with over 43,000 systems in operation. We are pioneers in the ESP industry and the first company in Russia to manufacture Permanent Magnet Motors designed specifically for the oil industry.

Our key product lines are electric submersible pumping systems (ESP), electric submersible progressive cavity pumping systems (ESPCP) and surface horizontal pumping systems designed to boost formation pressure & transfer liquid.

We design, manufacture and service all major components of artificial lift systems. Every part is specifically designed to work together with integrated production solutions in mind. This integrated approach improves reliability and extends system run life under a wide range of demanding oilfield conditions and industrial applications.

At Borets, we focus on maintaining and constantly improving quality, while promoting a healthy and safe work environment for our employees, clients and contractors as our conformance to ISO 14001 and OHSAS 18001 attest. Additionally, waste reduction and energy savings are priorities across our entire operational footprint.

Our company’s name “Borets” translates to “Fighter”, and it is our relentless pursuit of continuous improvement that enables Borets to offer the industry our premier products and services. It is this approach that has made us the leading global provider of artificial lift systems.

BORETS HIGHLIGHTS

115+ years
COMPANY HISTORY

9,000+
EMPLOYEES WORLDWIDE

#1
ESP GLOBAL PRODUCER
Borets has 8 state-of-the-art manufacturing facilities in 3 countries. We continuously invest in new technologies and new processes to improve our artificial lift systems operating performance. We maintain vertical integration in areas where we need to ensure control of the engineering and manufacturing processes to protect our proprietary technologies.

Vertical integration has allowed us to maintain our technology leadership and the quality of the equipment and services we supply, ensuring accountability to our customers. This is the reason why more than 500+ clients worldwide trust Borets to provide quality products and services in more than 43,000 wells.

We have service operations on five continents with the Americas representing one of our largest service footprints with 11 regional Service Support Centers in North and South America. With service contracts for the repair and maintenance of 19,000+ wells, Borets is one of the largest artificial lift systems repair and maintenance services providers in the world.

Borets services globally, but operates locally.

Our focus in all regions where we operate is to build meaningful long-term relationships bringing value to our customers and provide solutions based on local needs. In this way our customers (international and national, large and small oil companies) benefit from our continuously evolving and improving solutions to minimize their lifting costs and maximize their returns on investment.
Borets promotes continuous improvement of QHSE practices providing products and services of the highest quality at the lowest possible cost. Borets operates in safe working environments ensuring safety, health and well-being of its employees and personnel working on its behalf. This guarantees that all business practices are conducted in a manner that prevents environmental pollution and minimizes the impact associated with Borets’ activities, products and services.

Modern, state-of-the-art ESP manufacturing and service facilities, new technologies and automated machinery, improved equipment reliability, reduced use of hazardous materials, reduced consumption of natural resources, employee compliance, and over all best practices effectively govern the implementation of QHSE Management.

All Borets’ manufacturing and key service facilities have adopted the QHSE Management Systems certified in accordance with the requirements of ISO 9001 or API Specification Q1, ISO 14001 and OHSAS 18001.

We operate in full compliance with all relevant legislation, regarding quality of our products, our environmental aspects and OH&S risks, as confirmed during numerous inspections by state and local regulatory authorities and audits by interested parties.

Borets has demonstrated significant reductions in the number and rate of work-related injuries over the last 5 years and remains committed to continual improvement.
Our Research and Development Centers are focused on artificial lift systems design and upgrade. The R&D Centers are also engaged in research, development and implementation of the new artificial lift technologies and pump materials, helping operators to enhance oil production.

Borets provides products and services meeting the wide range of the industry needs and our team of artificial lift experts can in a timely manner design and offer the appropriate customized solution for every challenge.

Advanced design solutions and engineering technologies ensure high reliability of our equipment. Each new product is being tested at the R&D Centers using in-house specialized test benches. Borets R&D Centers are equipped with the sophisticated test benches for testing downhole and surface equipment as well as vertical wells allowing to test completely assembled systems in close to real well conditions. To test serial and new products, including high-speed motors and high-flow pumps, automated horizontal benches are used (including devices simulating pump operation in the steam-assisted gravity drainage mode (SAGD)). This advanced testing technology helps to expand the application range, improve quality and design of the manufactured equipment. Simulation and 3D prototyping software used during stage designing enable Borets to create high-efficiency stages.

To help customers in their operations, decrease their lifting costs & enhance oil production, over 500 Borets engineers are focused on product development, sustaining engineering, manufacturing and service support.
Borets owns 8 plants to manufacture all major components of ESP systems, ESPCP systems and HPS. To ensure production efficiency and quality enhancement of this versatile artificial lift product portfolio, Borets’ machining, assembly and testing facilities use the latest technologies. The innovative manufacturing processes are based on state-of-the-art sophisticated machine tools of EMAG, HAAS AUTOMATION, LAEMPE, KUKA, INDUCTOTHERM, AIDA, Kuroda, Metra, Maillefer, Tape Dratex, H. Folke Sandelin, Bartell & Armoring.

Borets is capable of manufacturing the widest range of Artificial Lift systems:

- ESPs and PCPs
- Gas handling systems
- Submersible induction motors and permanent magnet motors
- Motor seals
- Different types of ESP power cables
- VFDs, including universal vector control drives for induction and permanent magnet motors
- Downhole sensors

Borets’ in-house facilities include:

- Foundry and blank production
- Forging and stamping / press
- Galvanizing and coating
- Heat treatment and welding
- Machining and assembling
- Testing and painting

**MANUFACTURING CAPABILITIES**

- 8 PLANTS
- 1,302,000 ft² MANUFACTURING FACILITIES AREA
- 10,000+ ESPs MANUFACTURED ANNUALLY
With approximately 19,000 wells under service, Borets is one of the largest artificial lift systems repair and maintenance services providers in the world. Our services range from application engineering and installation to artificial lift systems monitoring and automation.

Borets has 25+ Service locations globally which provide the best support and service to our clients.

Knowledgeable, fully-trained professionals are available to meet clients’ needs 24 hours a day.

Borets provides:

- Efficient production management
- High service quality
- Modern technologies and equipment designed for artificial lift
- Systems repair
- Outstanding expertise and training of service personnel

19,000+ SERVICED WELLS

43,000+ ESP INSTALLED BASE

25+ SERVICE CENTERS
Borets versatile artificial lift portfolio includes solutions for oil production in diverse challenging environments, water injection, lift & transfer. Regardless of operating conditions complexity we can save you time and money by offering our fit-for-purpose, field-proven technologies & solutions.

We offer a whole range of artificial lift products and services, for enhanced well production, including:

- Electrical submersible pumping systems (ESPs)
- Electrical submersible progressing cavity pumping systems (ESPCPs)
- Horizontal pumping systems (HPS)
- Offshore ESP systems
- Surface electrical control systems
- Monitoring and surveillance systems
Borets manufactures a wide range of ESPs and ESPCPs with production rates from 28 to 38,550 bpd (4 to 6,130 m³/day) for wells with casing ID 3.90-10.79 in (99-274 mm).

Borets provides ESP solutions for a broad range of applications:

- Abrasive applications
- High-gas environments (efficiently handles up to 90% free gas)
- Corrosive environments
- Scale
- High temperatures (thermal recovery heavy oil production systems, such as steam-assisted gravity drainage (SAGD))
- Unstable flowrate

In addition to typical oil production, they are used for booster service, waterflooding and mine dewatering.

Borets Electrical Submersible Progressive Cavity Pump system (ESPCP) is the most effective solution for low volume wells with harsh environments and high viscosity fluids.

Borets HPS provides a horizontal multistage centrifugal pump solution for a broad range of surface applications requiring fluid injection, lift and transfer.

Common applications include:

- Water injection and disposal
- Mine dewatering and salt dome leaching
- Lean amine, crude oil, NGL, pipeline, liquid CO₂ power fluid boosting
- Geothermal service and industrial processed fluids

## ARTIFICIAL LIFT APPLICATIONS

<table>
<thead>
<tr>
<th>PARAMETERS</th>
<th>ESP</th>
<th>ESPCP</th>
<th>HPS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Application</td>
<td>Low, medium &amp; high volume wells</td>
<td>Low volume wells with harsh environment and high viscosity</td>
<td>Water injection, disposal and liquid pumping</td>
</tr>
<tr>
<td>Casing ID</td>
<td>3.90”-4.60”, 4.69”, 4.78”, 4.89”, 4.91”, 5.59”, 5.96”, 6.28”, 7.03”, 8.10”, 9.28”, 10.79”</td>
<td>4.78”, 4.89”, 5.96”</td>
<td>-</td>
</tr>
<tr>
<td>Pump series</td>
<td>339, 342, 378, 400, 406, 440, 449, 512, 513, 593, 675, 777, 842, 950</td>
<td>362, 404, 512</td>
<td>400, 538, 479, 642, 990-1000</td>
</tr>
<tr>
<td>Flow rate, bpd</td>
<td>40-38,550</td>
<td>± ±1,240</td>
<td>100-40,000</td>
</tr>
<tr>
<td>Head, ft</td>
<td>11,800</td>
<td>8,200</td>
<td>-</td>
</tr>
<tr>
<td>Fluid gravity, °API</td>
<td>± 10</td>
<td>± 35</td>
<td>-</td>
</tr>
<tr>
<td>Gas handling limit, %</td>
<td>10%</td>
<td>55%</td>
<td>90%</td>
</tr>
<tr>
<td>Temperature, °F</td>
<td>up to 442</td>
<td>up to 572</td>
<td>320</td>
</tr>
<tr>
<td>Viscosity, sP</td>
<td>± 50</td>
<td>± 3000</td>
<td>-</td>
</tr>
<tr>
<td>Features &amp; Benefits</td>
<td>Wide range of flow rates and pump sizes</td>
<td>Low power consumption</td>
<td>High system efficiency</td>
</tr>
<tr>
<td></td>
<td>Large selection of designs and materials for different well environments</td>
<td>Small surface footprint and no rode design</td>
<td>Cost effective installation and service</td>
</tr>
<tr>
<td></td>
<td>Permanent magnet or induction motor as a submersible drive</td>
<td>Short system length for deviated &amp; crooked wells</td>
<td>Modular design</td>
</tr>
<tr>
<td></td>
<td>Unique wear resistant wide range ESP (WR2) unconventional solution</td>
<td>Different stator material options (including composite)</td>
<td>Customized</td>
</tr>
<tr>
<td></td>
<td>High temperature solution</td>
<td></td>
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</tbody>
</table>

**BORETS ARTIFICIAL LIFT APPLICATIONS**

- Conventional Wells
- Low Flowrate Wells
- High Gas Oil Ratio Wells
- Tight Oil Wells
- Viscous Wells
- Corrosive Wells
- Sandy & Abrasive Wells
- Highly Deviated & Crooked Wells
- Wells with Scale Problems
- High Flowrate Wells
- High Temperature (SAGD) Wells
- High Asphalten Wells
- Slim Casings Wells
- CO₂ Applications Wells
- Surface Fluid Injection
- Surface Fluid Transport
Borets’ energy efficient solutions include application of the Permanent Magnet Motors (PMM) as a part of ESP or ESPCP systems. This integrated solution was designed specifically to lower our clients’ OPEX and life-cycle costs as well as optimize oil wells’ potential. PMM provides cyclic well operation capabilities for wells with production constraints.

LOW FLOWRATE SOLUTIONS
ESP-PMM systems with flowrates of 63 - 251 bpd (10-40 m³/day).
ESPCP-PMM systems for deviated wells with viscosity up to 3,000cP and flowrates of 28 - 283 bpd (4-45 m³/day).

SOLUTIONS FOR UNCONVENTIONAL OIL PLAYS
Wear-resistant wide range (WR2) pumping solution is designed for challenging environments of tight oil wells (including wells after fracturing), unstable flow wells producing from 560 to 1,900 bpd (90-300 m³/day), wells with the extremely high solids content and high GOR.
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