Wind Turbine Solutions
Energizing innovations in wind energy – worldwide
Pressured to meet the demands of a world expected to consume 45 percent more energy by 2030, energy companies are looking for new ways of using renewable energy in a post-carbon world.

Parker has been on the forefront of wind power for over two decades with solutions that touch virtually every critical function in the turbine. From integrated lube oil filtration systems and compact blade actuation systems to sealing technologies, Parker has the custom, precision-engineered solutions that help the most sophisticated wind power plants generate energy more efficiently, while improving reliability and uptime.

Case in point: Our high-efficiency power conversion systems deliver optimum power to the grid, while our scalable evaporative cooling system lowers overall system cost with up to 40 percent higher power through-put.

**WHY PARKER?**

**REDUCED TIME TO MARKET – GLOBAL SUPPORT**
From concept to production, our ability to manufacture worldwide shortens your design cycle, and improves production efficiency and streamlines procurement.

**GLOBAL PRESENCE – YOUR LANGUAGE, TIME ZONE AND CURRENCY**
Regardless of where you design, assemble, manufacture or install turbines, Parker is there with manufacturing plants, service and support in every major country.

**MULTIPLE-TECHNOLOGY PARTNER**
Proven solutions in hydraulics, filtration, seals, fluid conveyance designed to work in harmony, produce a more efficient and reliable wind turbine system.

**SELECTABLE LEVELS OF INTEGRATION – FEWER SUPPLIERS**
From components to fully-integrated systems, Parker’s broad-based resources give you more options, simplifying your supply chain, lowering development costs and speeding time to market.

**To date, more than 100,000 operational wind turbines are equipped with Parker products, demonstrating our expertise in this emerging energy resource.**
Core Technologies for Wind Turbines

**HYDRAULIC SOLUTIONS**
- Bladder accumulators/piston accumulators
- Pumps & motors
- Electro-hydraulic proportional valves
- Screw-in cartridge valves
- Air/Oil coolers
- Coolant evaporation inhibitor

**FILTRATION SOLUTIONS**
- Interchange filter elements
- Low-pressure/return line filters
- Quantum fiber media elements
- Water removal filter elements
- Portable hydraulic & gearbox oil filtration carts
- High-pressure inline/reverse flow filters
- Desiccant breathers
- Medium-pressure filters
- Gearbox filtration
- Inertial self-cleaning air filters

**FLUID CONVEYANCE SOLUTIONS**
- Hydraulic hose and piping
- Thermoplastic hose
- Coolant hose
- Gear oil hose
- Tubing & fittings

**SEALING AND SHIELDING SOLUTIONS**
- Continuous molded O-rings
- Radial shaft seals
- Bearing isolator seals
- Pitch & yaw bearing seals
- EMI shielding

**CONDITION MONITORING AND ADVANCED DIAGNOSTIC SOLUTIONS**
- Wireless sensors
- Online sensors
- Diagnostic test equipment
- Field oil test equipment
- Particle counters & analyzers
- Pressure switches & controllers
- Test points
- Portable proportional valve test box
ACCUMULATORS

Piston
Parker piston accumulators offer several unique advantages including a patented crimping process that reduces field failure rates and field servicing costs. Our piston accumulators are highly durable with extremely low gas permeation rates, and USA-made, with additional manufacturing in Europe, for best-in-class lead times. They are crimped to 6” (150mm) bore, available up to 22” (559mm) bore threaded and up to 20,000 psi (1379 bar). These high-speed pistons perform in temperature ranges from -45°F to +320°F (-42°C to +160°C).

Diaphragm
The Parker ELM gas-charged high-pressure diaphragm accumulators are designed to be compact, lightweight and PED-compliant for wind turbine braking systems and energy reserve for emergencies. 2,030 psi to 5,076 psi (140 bar to 350 bar), 0.02-gallon to 0.92-gallon (.075L to 3.5L).

Bladder
The Parker bladder-style accumulator is the industry’s original and maintains the highest quality because of our in-house bladder-molding operations. Five bladder compounds to suit a wide variety of fluids and temperatures. Certified to ASME VIII-Div. 1. 1-gallon (3.8L) to 15-gallon (56.8L) sizes with flow rates up to 600 gpm (2271 lpm).

Global Bladder
Parker’s newly developed global bladders with E2 material are now a standard catalog product engineered to meet all global certifications. In-house manufacturing enhances quality and performance. They combine the best performance qualities of Olaer and Greer designs, and require only 5 days’ lead time for delivery.

Repair Kits and Accessories
Parker provides bladder repair, safety blocks and charging kits.

PUMPS AND MOTORS

A comprehensive range of pumps and motors for a variety of needs: gear pumps and motors, radial piston pumps, and vane pumps.

Gear Pumps and Motors
Parker electric motor-driven gear pumps feature a helical gear design with geometrical displacement of 16 cm³/r to 118 cm³/r. A cast-iron construction ensures performance in harsh conditions. Even with high-viscosity oils, Parker gear pumps provide excellent suction.

Axial Piston Pumps and Motors
Parker axial piston pumps and motors are available in fixed and variable displacement options with exceptional features, including high-strength cast-iron housings, modular controls and smooth rotation.

Vane Pumps
Parker vane pumps are offered in variable displacement and single, double and triple fixed displacements. The Denison T Series fixed-displacement vane pumps are high-pressure, high-speed designed to accommodate high flows within a small envelope.

Hydraulic Motors
Parker hydraulic motors are engineered in fixed and variable displacement options.
Hydraulic Solutions

VALVES

Electro-Hydraulic Proportional Valves

Parker’s advanced direct operated proportional control valves are specifically designed for high-response, closed-loop controls. The D1FC (nominal size NG06) and D3FC (nominal size NG10) combine a highly compact external footprint with onboard digital electronics, integrated position control technology and separate enabling of solenoids to provide high dynamics and high flow rates.

Features that make a difference:
- Rugged electronics design = shock-mounted board with conformal coated electronics in a robust, sealed metal enclosure
- All fasteners are secured with threaded locking material = Long, reliable service in high-vibration environments
- Factory preset = Valve-to-valve interchangeability
- Latest generation of digital onboard electronics = The LVDT is completely integrated into the housing for high reliability; therefore, it does not require an exposed cable connection
- Low hysteresis = Repeatability
- Position feedback sensor positioned directly on the spool = Continuous and precise measurements for high accuracy in blade pitch control
- Corrosion-tested to ISO 92207, undergoing 720 hours of salt spray tests.

Portable Proportional Valve Test Box

The Valve Master® EX00-M05 Series test unit is suitable for testing and commissioning all proportional and servo proportional valves with onboard electronics across the hydraulics industry. For easy on-site service, all necessary cables are securely located inside the rugged case. The Valve Master design provides all command signal sources and measuring ports for quick and easy control and diagnosis of the valves.

Screw-in Cartridge Valves

Parker screw-in cartridge valves are a modular and compact solution for hydraulic circuit design. Our complete product portfolio features valves that are direct acting pressure and flow controls, as well as manually operated, hydraulic piloted, or solenoid actuated 2 to 4-way directional control valves and logic elements in a variety of size from -8 to -20. Parker provides product with a wide range of pressures and flows up to 6,000 psi (420 bar) and 75 gpm (285 lpm), respectively, depending on the model.

DID YOU KNOW?

Hydraulic Cartridge Valves


COOLING SOLUTIONS

Air/Oil Coolers

Parker offers a wide range of coolers. The MAC air/oil cooler system is based on the existing proven concept of the LAC series but has been further developed to withstand the most challenging environments. It is engineered for marine nearshore and offshore applications and provides cooling capacity up to 300 kW. Corrosion resistance meets C4-M and CSM-M requirements in accordance with ISO 12944. A clever design and the right choice of materials and components produce a long useful life, high availability and low service and maintenance costs.

Coolant Evaporation Inhibitor for 1.5 Mw Wind Turbine Open-Loop Cooling Systems

The correct water/glycol coolant mixture and levels in the insulated-gate bipolar transistor (IGBT) circuit are a critical issue. Water evaporation elevates the mixture’s viscosity, prohibits cooling ability and compromises the IGBT and associated electronic controls. Parker’s Kleenvent KV-CEI unit eliminates water evaporation in the coolant solution and stops ingress of airborne contaminants by closing off the cooling loop from the outside atmosphere using breather bladder technology. It prevents the need for continuous coolant monitoring during the warm season for a return on investment in as little as one year.
Filtration Solutions

FILTER ELEMENTS

Hydraulic OEM Interchange Filter Elements
Parker’s ParFit™ hydraulic and lube oil filter elements are designed to upgrade any filtration system with the industry-leading media that is optimized for long life in wind turbines of all sizes. The leading dirt-holding capacity, lowest pressure drops and high beta ratings of ParFit™ elements ensure a clean lube oil supply to the gearbox while minimizing replacement intervals. A wide range of elements allows for the consolidation of purchases and better inventory management.

Quantum Fiber Elements
Parker’s latest quantum fiber media provides a reduction in pressure drop while increasing the filtration efficiency at higher differential pressures compared to previous-generation products. These improvements optimize the overall performance of Parker filtration while extending element life, making it ideal for wind turbine systems where access is difficult and demand to lower the cost of ownership is paramount. Available in 2, 5, 10 and 20 micron rating.

GLF Low Pressure Filters
Parker’s Global Low Pressure Filters (GLF) are a series of compact return filters that can be tank-top or in-tank mounted. They are available in five sizes with flow rates from 26 to 660 gpm (100 to 2,500 lpm). A wide range of options including inlet connections, air breathers, pressure gauges, funnels, and magnets make them suitable for a variety of applications.

Water Removal Filter Elements
Used in combination with particulate filters, Par-Gel water removal filter elements provide significant benefits: less component wear, reduced downtime, improved machine productivity, less replacement and disposal of contaminant fluid, and reduced risk of catastrophic failure.

AIR INTAKE FILTERS

Inertial Self-Cleaning Air Filters
The Parker Farr Dynavane is a compact, self-cleaning, inertial separator. It is designed to handle large volumes of air at high velocities, while operating at a constant airflow resistance. The Dynavane incorporates inertial separation, providing high dust removal efficiency of airborne particulate matter.

Extensive testing under laboratory and field conditions has proven the Dynavane to be one of the most effective high-volume air cleaners for use in single- and multistage-filtering systems.

Standard, pre-engineered Dynavane assemblies are available in sizes operating from 500 CFM to over 250,000 CFM while a custom engineered model can be designed to suit our customer’s needs. Multiple units can be combined to handle even greater air volumes with minimal space requirements.

Monocline self-cleaning, inertial air cleaners are recommended where dust concentrations are extreme or where service work must be minimized. Monocline inertial separators are highly efficient as a primary air filtration device or as a pre-cleaner for high-efficiency secondary filters.

Monocline panels can be configured in almost any arrangement, allowing them to match both the physical layout and airflow requirements of any system. The construction gives the Monocline an excellent structural resistance and a unique adaptability to needed shapes and performances.

CLARCOR Industrial Air’s clearcurrent® filters offer extremely high levels of turbine protection in a wide range of environments with its comprehensive selection of filter options. Designed to fit a range of new and retrofit systems in cross-flow, up-flow, and split up-flow configurations and available in various sizes and materials in both cylindrical and conical styles.
Auxiliary Filtration System (AFS)

Parker’s wind filter cart family is designed specifically to fit into all major turbine manufacturers’ nacelles. Built within a robust and enclosed frame, the hydraulic and lube cart’s flow rates are optimized to minimize the amount of time required to achieve system cleanliness. These cleanliness targets are easily identified with an optional integrated particle counter. This product comes standard with a visual differential pressure indicator. Going up-tower is made easier with the fully rated hoist ring included on every cart.

High Pressure Reverse Flow Filters

Our world pressure filters (WPF) remove particulates down to 2 microns at operating pressures up to 7,000 psi (483 bar). They feature an integral indicator and bypass with coreless element assembly for ease of disposal. A proprietary SurgeGuard System protects from backflow risks, while patented deformable tangs allow automatic element locating for fast, safe, and clean removal. Can be directly mounted to the manifold.

Gear Box Filtration

Parker’s industrial high-flow gear box lube oil filters provide optimum performance in areas of flow vs. pressure drop, dirt-holding capacity and efficiency. Long life construction maximizes element service intervals while protecting critical lubrication system components. Ergonomic design allows for safe, quick and easy service. Magnetic pre-filtration is available, allowing the user to quickly identify any accelerated component wear. Porting and materials of construction can be customized to meet demanding requirements.

Desiccant Breathers

To maintain peak productivity and efficiency, Parker EZ-Dri desiccant breathers prevent moisture and particulate contamination from entering the reservoir.

Parker’s EZ-Dri is equipped with check valves to extend the life of the desiccant, opening only when an exchange of air is required. Silica gel absorbs water from incoming air, and during exhalation, dry system air, is passed through the silica gel bed, partially regenerating the desiccant.

Gearbox Filter Manifolds

Parker filter manifolds with integrated pressure and temperature control valves reduce the space required, weight and number of fluid connections (leak paths).
SENSORS

Wireless Sensors

Parker’s SensoNODE™ series of wireless sensors is ideal for continuous condition monitoring using the cloud, enterprise applications, or a native mobile app. The sensors monitor assets and processes for changes in pressure, temperature, humidity, flow, power, strain, vibration, and analog current signals.

SensoNODE Gold 900 MHz sensors feature simple operation, long battery life, and low power usage with long-range capabilities. SensoNODE Blue Bluetooth sensors offer many of the features of SensoNODE Gold in a compact, lightweight design built for use in harsh environments. Both sensor lines easily connect to our Voice of the Machine software platform.

Online Sensors

Metallic Wear Debris
Detects size, distribution and count of both ferrous and non-ferrous debris particles.

Moisture
Provide fast, reliable and accurate detection of moisture in fluids.

Fluid Property
Sensors measure viscosity, density, dielectric constant and temperatures of fluids.

Fluid Condition Sensor
Detection of oil aging and contamination of oil.

Parker’s Voice of the Machine is a suite of condition monitoring software. It has an easy-to-use interface and is compatible with mobile devices. Voice of the Machine puts vital information in-hand to help keep systems healthy and operating efficiently.

Voice of the Machine Cloud is Parker’s cloud-based condition monitoring software that provides alerts, live status and historical data. It provides mobile awareness of processes and assets anytime, anywhere. Voice of the Machine Cloud allows for remote monitoring of multiple sites and sensors, multiple users and access from any browser.
Condition Monitoring and Diagnostics

**Field Oil Test Equipment**

Field test equipment enables on-site testing, eliminating the need to go to the lab. The DiGi field test kit measures Total Acid Number (TAN), Total Base Number (TBN), viscosity, water-in-oil and insolubles.

For complete analysis, Parker’s offers ParTest fluid analysis. Parker will supply you with a fluid container, mailing carton and appropriate forms to identify your fluid and its use. An independent lab performs complete spectrometric analysis, particle counts, viscosity and water content. Results are sent directly to the requester.

**Particle Counters And Analyzers**

The Parker icountPD transmits oil cleanliness by ISO code through LED or digital display indications for low, medium and high contamination levels.

The icountOS portable oil sampler provides ISO and NAS code cleanliness reporting for real-time detection of both particulates and dissolved water down to 4 microns and is available with Wi-Fi.

The icountLCM20 portable particle counter provides particle counts for 6 channels, multistandard ISO and NAS code cleanliness reporting, data entry, data graphing and integral printing (all standard).

**Pressure and Level/Temperature Controllers**

The SensoControl™ line of controllers provide a single instrument solution for monitoring pressure (SCPSD pressure controller) and fluid level and temperature (SCLTSD level/temperature controller).

The SCPSD pressure controller combines the functions of a pressure switch, a pressure sensor, and a display device into one easy-to-use device. The SCLTSD level/temperature controller monitors two vital system parameters within fluid systems with color-coded displays that make it easy for users to identify tank and temperature measurements.

Shared features include:
- Rugged metal housing that’s resistant to moisture, shock, and vibrations
- Analog signals
- Switching outputs
- Electronics protected against reverse polarity, over-voltage, and short-circuits

**Pressure Switches**

The Parker SensoControl™ SCPS01 electronic pressure switches have been designed with EMC characteristics, shock resistance and vibration resistance so that they can be used in a wide variety of wind turbine applications. In order to reduce the complexity of installation for the customer, the pressure switch can be programmed with customer-specific values at the factory, eliminating the need to make time-consuming adjustments while the system is pressurized. The solid state pressure switch contains no moveable parts. All components exposed to the outside environment are made from stainless steel.

**Diagnostic Test Points**

Parker SensoControl™ test points are engineered for pressure monitoring, checking and taking samples on high, low and negative pressure systems. They can also be used for bleeding cylinders and hydraulic systems. They offer a leak-free connection before the valve is open, easy handling, and coupling pressure up to 5,802 psi (400 bar) with screw couplings, nominal pressures up to 9,137 psi (630 bar). Available in Parker’s proprietary Chromium-6 Free finish.
**Hydraulic Hose**

Parker GlobalCore provides a simple solution of robust hydraulic hoses designed for high-pressure applications. With five hoses and two fittings, GlobalCore significantly reduces inventory and part number complexity.

Tested up to twice the ISO 18752 standard, GlobalCore is an anytime, anywhere solution engineered to endure the toughest conditions for the longest service life possible. GlobalCore constant working pressure hoses are available in the following pressure ratings: 3,000 psi (207 bar), 4,000 psi (276 bar), 5,000 psi (345 bar), and 6,000 psi (414 bar).

GlobalCore cover options (rated to -40°F/-40°C) include Standard, ToughCover and SuperTough, which is 450 times more abrasion-resistant than the Standard cover. With manufacturing locations in all the major global regions, GlobalCore supports your hose needs, regardless of where your equipment was manufactured, with a single cohesive family of complementary products. For extreme cold, Parker offers low temperature hose rated as low as -70°F (-57°C).

**Thermoplastic Hose**

Parker manufactures nonconductive hoses for low- medium- and high-pressure applications. When compared to wire-reinforced rubber hose or even metal tubing, thermoplastic hose offers a significant added value. Thermoplastic provides extreme chemical compatibility, noise-level reduction, and ultraviolet and corrosion resistance, while fiber reinforcement retains flexibility — even at low temperatures.

**Parker Legris Push-in Fittings**

Our extensive range of push-to-connect fittings are ideal for liquid cooled Energy Storage Systems and Frequency Converters. Available in polymer and metal up to a diameter of 22mm. They can be combined with variety of flexible tubing materials. Look to Parker to increase productivity with maximum flow for fast and easy maintenance.

**Gear Oil Hose**

Cervino GIHS Series hose is used for suction and delivery of mineral oils and fuels. The proprietary compound mixture makes the hose especially well-suited for outdoor applications, when low-temperature performance is required. Product is compliant with EN12115.

**DID YOU KNOW?**

**Hose-Flushing Capabilities**

Parker has in-house capabilities to provide oil-flushed hose assemblies that meet Turbine OEM ISO code cleanliness specifications. Visit [www.parker.com](http://www.parker.com).
**Fluid Conveyance Solutions**

**Instrumentation Tubing**
Parker provides seamless instrumentation tubing in both inch and metric. Available in stainless steel, Parker tubing is the gold standard for durability and value.

**Metric Tube Fittings**
Parker EO-3 fittings enable fast, easy, simple and more secure installation by incorporating a new thread technology. EO-3 fittings feature an indicator ring that makes correct assembly plainly visible.

**Standard Tube Fittings**
Parker offers a complete variety of both steel and stainless steel tube-fitting solutions.

**Non-Welded Piping Solution**
Parker Complete Piping Solutions (CPS) are now ASME B31.1 and B32.3 code-compliant and offer additional advantages: shorter prefabrication time leading to faster total installation, no “hot works” open-flame permit requirement, reduced flushing time and costs, and no post-welding cleaning costs.

**Compression Fittings**
Parker manufacturers both A-LOK™ two-ferrule and CPI™ single-ferrule compression fittings.

**Quick Disconnect Couplers**
Parker quick disconnect couplers are designed for low, medium and high pressure. Their operating range is from -40°F to +250°F (-40°C to +121°C).

**O-Ring Face Seal Fittings**
Parker’s O-ring face seal fittings have been designed for applications with higher impulse pressures and vibration, offering leak-free connections up to 9,000 psi (620 bar) in a wide range of temperatures. Their patented trapezoidal seal, available on both Seal-Lok™ and O-Lok® fittings, allows for maximum O-ring retention in a precisely engineered Captive O-Ring Groove (CORG). This competitive advantage increases assembly productivity and offers maximum assurance of a leak-free connection, avoiding operational and maintenance costs.

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Sealing and Shielding Solutions

Parker’s sealing and shielding capabilities include a unique combination of manufacturing expertise, materials experience, innovation and engineering excellence to create efficient solutions for today’s wind turbines.

**Pitch and Yaw Bearing Seals**
Parker pitch and yaw bearing seals and environmental seals are engineered to reduce friction, improve pressure resistance and increase the systems operating efficiency. Pitch and yaw bearing seals are made from specialized materials: FKM, NBR and HNBR. They resist wear, grease and ozone. Their highly engineered extruded profiles are designed for pressure resistance and torque optimization. Available in long lengths or bonded into rings with a high-strength, hot-vulcanizing process.

**Continuous Molded O-Rings**
Parker Continuous Molded O-Rings enhance large diameter O-ring performance. They feature a proprietary continuous molding technology to ensure strength and reliability. Parker’s process eliminates spliced joints. Available in standard and custom O-Ring sizes.

**EMI Shielding**
Parker Chomerics EMI shielding and coatings can be found in many OEMs and their suppliers’ electrical and electronic systems on wind turbines. Optically enhanced display screens, EMI shielded low-profile and closure force materials and tapes, optical filters, conductive elastomers and fabric over foam gaskets all form an integral part of control cabinets. Conductive coatings and adhesives are critical in ground fault and lightning protection of key components and structural elements.
Sealing and Shielding Solutions

Radial Shaft Seals
Parker Radial Shaft Seals are manufactured in diverse materials: rubber, PTFE and TPU. They are split for service. The non-metallic radial sealing element is a composite OD, rubber/Kevlar®. This composite will not rust or corrode and accommodates a wider range of bore tolerances and imperfections, along with low cost tooling. The flexible hinge allows for high misalignment and vibration. Molded chamfer and composite OD facilitates easy installation.

Hollow Tube Enclosure Seals
Hollow tube enclosure seals are extruded gaskets with a low closure force and a low compression set. Durable construction ensures a long life. With mechanical fasteners and friction fit grooves, they provide multiple attachment options.

Ring Isolator Seals
Parker ProTech® bearing isolator non-contacting labyrinth seals statically seal on the shaft with the O-ring, so the rotor will spin with the shaft. It creates a controlled gap at the rotor/stator interface, which restricts contaminants. At the drain port, centrifugal force and gravity expel contaminants out of the seal. Internal oil grooves direct oil splash back into the sump. All of which extends service life and improves system efficiency. Parker ProTech® self-grounding bearing isolator seals dissipate shaft electrical charges, reducing shaft voltage and preventing bearing pitting.
Parker Tracking System (PTS) Asset Management

The Parker Tracking System is an innovative component tagging and asset management solution available in 50 countries worldwide. The system markedly increases uptime by providing fast and accurate product information to speed replacement, regardless of where or when the component was created or installed. Whether it’s a pump, hose, filter or any product, tagged components can be replaced sight unseen, so PTS eliminates the wait for removal before the new part can be acquired.

PTS produces clear and dynamic product identification, providing a critical link to the digital record where product-specific data is stored. Because products are used in a variety of challenging environments and conditions, durable tagging media must ensure precise readability. In terms of maintenance and inspection, industry and governmental regulations are forcing businesses to be more aware of their own record-keeping. The PTS system enables users to establish inspection and/or replacement dates to drive proactive maintenance planning. This optimizes equipment use and ensures compliance. PTS hardware and software use the latest in cloud technology, so data can be securely accessed from any internet-connected device. Generating custom part labels can be quick and easy with compatible hardware kits personalized for each customer site.

PTS Pro brings together advanced asset tracking/management capabilities with Parker’s global network of distributors and service partners. With PTS Pro, you can establish detailed asset location data, create custom inspection templates, schedule inspections and replacements, apply application and related data to an asset group, transfer record ownership between PTS accounts, store and retrieve historical inspection results, and export asset details into spreadsheet reports.
Hose repair has never been so easy with the ParkerStore Hose Doctor mobile hose repair solution. Parker will have trained professionals come to your site with a fully stocked truck to identify, diagnose and replace hose assemblies on hydraulic and pneumatic systems. Backed by our global network of over 1,000 vehicles, we’re available anytime, day or night, for your service and repair needs.

Hydraulic OEM Interchange Filter Elements
Parker’s ParFit™ hydraulic and lube oil filter elements are designed to upgrade any filtration system with the industry-leading media that is optimized for long life in wind turbines of all sizes. The leading dirt-holding capacity, lowest pressure drops and high beta ratings of ParFit™ elements ensure a clean lube oil supply to the gearbox while minimizing replacement intervals. A wide range of elements allows for the consolidation of purchases and better inventory management.

Global Distribution
Parker has global reach with local support. With 13,000 distributors, sales offices and maintenance, repair and overhaul (MRO) outlets, we offer instant access to parts, products, maintenance, service and solutions.

Dedicated Repair Centers
With repair centers across the globe, Parker is dedicated to providing our customers with a premier service experience. We stock thousands of replacement parts to extend the life of your product and system investments. Pre-assembled solutions such as our Bladder Kits are readily available for the reconditioning of Parker accumulators, helping you prevent downtime and increase productivity.
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<tbody>
<tr>
<td>AE – UAE</td>
<td>Dubai</td>
<td>+971 4 8127100</td>
<td><a href="mailto:parker.me@parker.com">parker.me@parker.com</a></td>
</tr>
<tr>
<td>AR – Argentina</td>
<td>Buenos Aires</td>
<td>+54 3327 44 4129</td>
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<tr>
<td>AT – Austria</td>
<td>Wiener Neustadt</td>
<td>+43 (0)2622 23501-0</td>
<td><a href="mailto:parker.austria@parker.com">parker.austria@parker.com</a></td>
</tr>
<tr>
<td>AT – Eastern Europe</td>
<td>Wiener Neustadt</td>
<td>+43 (0)2622 23501 900</td>
<td><a href="mailto:parker.easteurope@parker.com">parker.easteurope@parker.com</a></td>
</tr>
<tr>
<td>AU – Australia</td>
<td>Castle Hill</td>
<td>+61 (0)2-9634 7777</td>
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<tr>
<td>AZ – Azerbaijan</td>
<td>Baku</td>
<td>+994 50 2233 458</td>
<td><a href="mailto:parker.azerbaijan@parker.com">parker.azerbaijan@parker.com</a></td>
</tr>
<tr>
<td>BE/LU – Belgium</td>
<td>Nivelles</td>
<td>+32 (0)67 280 900</td>
<td><a href="mailto:parker.belgium@parker.com">parker.belgium@parker.com</a></td>
</tr>
<tr>
<td>BR – Brazil</td>
<td>Cachoeirinha RS</td>
<td>+55 51 3470 9144</td>
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<tr>
<td>BY – Belarus</td>
<td>Minsk</td>
<td>+375 17 209 9399</td>
<td><a href="mailto:parker.belarus@parker.com">parker.belarus@parker.com</a></td>
</tr>
<tr>
<td>CA – Canada</td>
<td>Milton, Ontario</td>
<td>+1 905 693 3000</td>
<td></td>
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<tr>
<td>CH – Switzerland</td>
<td>Etoy</td>
<td>+41 (0)21 821 87 00</td>
<td><a href="mailto:parker.switzerland@parker.com">parker.switzerland@parker.com</a></td>
</tr>
<tr>
<td>CL – Chile</td>
<td>Santiago</td>
<td>+56 2 623 1216</td>
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<tr>
<td>CN – China</td>
<td>Shanghai</td>
<td>+86 21 2899 5000</td>
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</tr>
<tr>
<td>CZ – Czech Republic</td>
<td>Klecany</td>
<td>+420 284 083 111</td>
<td><a href="mailto:parker.czechrepublic@parker.com">parker.czechrepublic@parker.com</a></td>
</tr>
<tr>
<td>DE – Germany</td>
<td>Kaarst</td>
<td>+49 (0)2131 4016 0</td>
<td><a href="mailto:parker.germany@parker.com">parker.germany@parker.com</a></td>
</tr>
<tr>
<td>DK – Denmark</td>
<td>Ballerup</td>
<td>+45 43 56 04 00</td>
<td><a href="mailto:parker.denmark@parker.com">parker.denmark@parker.com</a></td>
</tr>
<tr>
<td>ES – Spain</td>
<td>Madrid</td>
<td>+34 902 330 001</td>
<td><a href="mailto:parker.spain@parker.com">parker.spain@parker.com</a></td>
</tr>
<tr>
<td>FI – Finland</td>
<td>Vantaa</td>
<td>+358 (0)20 75 3 2500</td>
<td><a href="mailto:parker.finland@parker.com">parker.finland@parker.com</a></td>
</tr>
<tr>
<td>FR – France</td>
<td>Contamine s’Arve</td>
<td>+33 (0)4 50 25 80 25</td>
<td><a href="mailto:parker.france@parker.com">parker.france@parker.com</a></td>
</tr>
<tr>
<td>GR – Greece</td>
<td>Athens</td>
<td>+30 210 933 6450</td>
<td><a href="mailto:parker.greece@parker.com">parker.greece@parker.com</a></td>
</tr>
<tr>
<td>HK – Hong Kong</td>
<td></td>
<td>+852 2428 8008</td>
<td></td>
</tr>
<tr>
<td>HU – Hungary</td>
<td>Budapest</td>
<td>+36 1 220 4155</td>
<td><a href="mailto:parker.hungary@parker.com">parker.hungary@parker.com</a></td>
</tr>
<tr>
<td>IE – Ireland</td>
<td>Dublin</td>
<td>+353 (0)1 466 6370</td>
<td><a href="mailto:parker.ireland@parker.com">parker.ireland@parker.com</a></td>
</tr>
<tr>
<td>IN – India</td>
<td>Mumbai</td>
<td>+91 22 6513 7081-85</td>
<td></td>
</tr>
<tr>
<td>IT – Italy</td>
<td>Corsico (MI)</td>
<td>+39 02 45 19 21</td>
<td><a href="mailto:parker.italy@parker.com">parker.italy@parker.com</a></td>
</tr>
<tr>
<td>JP – Japan</td>
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<td>+81 (0)3 6408 3901</td>
<td></td>
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<tr>
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<td>Seoul</td>
<td>+82 2 559 0400</td>
<td></td>
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<td>Almaty</td>
<td>+7 7272 505 800</td>
<td><a href="mailto:parker.easteurope@parker.com">parker.easteurope@parker.com</a></td>
</tr>
<tr>
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<td>Apodaca</td>
<td>+51 81 8156 6000</td>
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<tr>
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<td>Shah Alam</td>
<td>+60 3 7849 0800</td>
<td></td>
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<tr>
<td>NL – The Netherlands, Oldenzaal</td>
<td></td>
<td>+31 (0)541 585 000</td>
<td><a href="mailto:parker.nl@parker.com">parker.nl@parker.com</a></td>
</tr>
<tr>
<td>NO – Norway</td>
<td>Asker</td>
<td>+47 66 75 34 00</td>
<td><a href="mailto:parker.norway@parker.com">parker.norway@parker.com</a></td>
</tr>
<tr>
<td>NZ – New Zealand</td>
<td>Mt Wellington</td>
<td>+64 9 574 1744</td>
<td></td>
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<tr>
<td>PL – Poland</td>
<td>Warsaw</td>
<td>+48 (0)22 573 24 00</td>
<td><a href="mailto:parker.polenpl@parker.com">parker.polenpl@parker.com</a></td>
</tr>
<tr>
<td>PT – Portugal</td>
<td>Leca da Palmeira</td>
<td>+351 22 999 7360</td>
<td><a href="mailto:parker.portugal@parker.com">parker.portugal@parker.com</a></td>
</tr>
<tr>
<td>RO – Romania, Bucharest</td>
<td></td>
<td>+40 21 252 1382</td>
<td><a href="mailto:parker.romania@parker.com">parker.romania@parker.com</a></td>
</tr>
<tr>
<td>RU – Russia, Moscow</td>
<td></td>
<td>+7 495 645-2156</td>
<td><a href="mailto:parker.russia@parker.com">parker.russia@parker.com</a></td>
</tr>
<tr>
<td>SE – Sweden</td>
<td>Spånga</td>
<td>+46 (0)8 59 79 50 00</td>
<td><a href="mailto:parker.sweden@parker.com">parker.sweden@parker.com</a></td>
</tr>
<tr>
<td>SG – Singapore</td>
<td></td>
<td>+65 6887 6300</td>
<td></td>
</tr>
<tr>
<td>SK – Slovakia, Banská Bystrica</td>
<td></td>
<td>+421 484 162 252</td>
<td><a href="mailto:parker.slovakia@parker.com">parker.slovakia@parker.com</a></td>
</tr>
<tr>
<td>SL – Slovenia, Novo Mesto</td>
<td></td>
<td>+386 7 337 6650</td>
<td><a href="mailto:parker.slovenia@parker.com">parker.slovenia@parker.com</a></td>
</tr>
<tr>
<td>TH – Thailand, Bangkok</td>
<td></td>
<td>+662 717 8140</td>
<td></td>
</tr>
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<td>TR – Turkey, Istanbul</td>
<td></td>
<td>+90 216 497081</td>
<td><a href="mailto:parker.turkey@parker.com">parker.turkey@parker.com</a></td>
</tr>
<tr>
<td>TW – Taiwan, Taipei</td>
<td></td>
<td>+886 2 2298 8987</td>
<td></td>
</tr>
<tr>
<td>UA – Ukraine, Kiev</td>
<td></td>
<td>+380 44 494 2731</td>
<td><a href="mailto:parker.ukraine@parker.com">parker.ukraine@parker.com</a></td>
</tr>
<tr>
<td>UK – United Kingdom, Warwick</td>
<td></td>
<td>+44 (0)1926 317 878</td>
<td><a href="mailto:parker.uk@parker.com">parker.uk@parker.com</a></td>
</tr>
<tr>
<td>US – USA, Cleveland</td>
<td></td>
<td>+1 216 896 3000</td>
<td></td>
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<td>VE – Venezuela, Caracas</td>
<td></td>
<td>+58 212 238 5422</td>
<td></td>
</tr>
<tr>
<td>ZA – South Africa, Kempton Park</td>
<td></td>
<td>+27 (0)11 961 0700</td>
<td><a href="mailto:parker.southafrica@parker.com">parker.southafrica@parker.com</a></td>
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