

# Solutions for Mobile Applications

From construction sites to farmlands, forests and more, the challenges for mobile hydraulics are wide-ranging and varied. Yet the foremost demands are the same: Total reliability whatever the conditions and optimum performance from start up to shut down.

For peak performance and efficiency in mobile equipment, Parker's Global Accumulator Division has the most complete selection of solutions. We bring you the most experience in the industry, unsurpassed application and engineering expertise, industry-leading production capabilities and 24/7 global accessibility.

## **Accumulator advantages**

Reduced shock loads, lower noise levels and reduced energy consumption are among the primary benefits of specifying an accumulator in a hydraulic system. Smaller pumps, motors and reservoirs save installation space and cost, while the inherent fail-safe performance of a piston accumulator provides safe operating margins for braking and steering systems.

Accumulators also can benefit hydraulic systems by providing:

- **an auxiliary power source for use during peak periods**
- **protection from damage due to thermal expansion and contraction in a closed system**



- **compensation for changes in fluid value to assure a positive pressure**
- **emergency fail-safe power**
- **maintained necessary pressure for long periods of time**
- **fluid dispensing at a slow, constant rate to critical equipment wear areas**

In the longer term, reduced operator fatigue and extended maintenance intervals also help to reduce ownership costs and boost operational productivity.

## **Look to the global leader**

Parker supplies the industry's broadest hydro-pneumatic accumulator product line, including pistons, bladders and diaphragms. In fact, the well-known Greer bladder accumulator line is part of today's Parker

advantage. As a result, without limitations or bias, we recommend and supply the best-engineered solution based on your application.

You can depend on Parker's unmatched strengths in:

- **state-of-the-art technology**
- **lean processes resulting in the industry's shortest lead times**
- **the industry's top technicians and professionals**
- **leadership in engineered custom-design work**
- **certification capabilities for today's global demands**

### **Parker technology and lean manufacturing**

Years of lean manufacturing principles allow us to turn your order around quickly and efficiently. We use highly flexible automation, high-precision injection molding machines and robotic machining cells to produce the highest-quality bladder and piston accumulators. Every accumulator is pressure tested to excellent quality standards before it ships to the customer. And as you'd expect, we are ISO 9001 certified.

### **The right solution for your application**

As a major industry supplier of all three types of accumulators, we first evaluate your needs and opportunities to increase the performance, efficiency and value of your product. We recommend the ideal solution based on your specific situation and criteria. We then ensure that your accumulators are manufactured with the best-grade materials to the highest industry standards. And we provide the required labeling, specially designed packaging and shipping containers to meet today's critical safety and environmental regulations.



Every accumulator is pressure tested before it ships to the customer.

### **Leading engineered custom design**

Due to our strong engineering capabilities, you can also look to Parker first for custom-design initiatives and solutions, including:

- **efficient modification of standard designs to your specifications**
- **custom rubber compression molding capabilities**
- **all grades of steel, stainless and exotics, as well as advanced performance materials**
- **temperature pressure and positioning sensors technology**
- **special mounting, including bank (rack) configurations of multiple accumulators**

### **Unsurpassed reliability and responsiveness**

Parker accumulators are at work in mobile and industrial equipment worldwide - including some of the harshest environments on earth. For our superior capabilities, experience and service, major OEMs have made us their supplier of choice. In fact, we are the trusted supplier to a major share of today's accumulator market.

Equally important, our worldwide service, distribution and sales network keeps us responsive and accessible to you anywhere, anytime.

Parker accumulator customers have the advantages of our:

- **sales and service offices located globally**
- **worldwide distribution network**
- **manufacturing facilities on five continents**
- **emergency delivery with a toll-free call**
- **inPHorm™ sizing and selection software**

- **instant information at [www.parker.com/accumulator](http://www.parker.com/accumulator)**
- **the industry's most complete print materials**

For the details and assistance you need to put our strengths to work in your mobile applications, contact Parker's Global Accumulator Division.

### **Typical Mobile/Industrial Applications and Advantages Include:**

- **emergency backup for steering, brake and pilot circuits**
- **shock absorption in hydrostatic drives**
- **pressure spike dampening in fork lifts/cherry pickers**
- **optimized suspension and braking systems performance**
- **reduced pulsations in plunger and diaphragm pumps**
- **injection molding and die cast equipment (high pressure and flows in short time period)**
- **maintained pressure and reduced pump size in machine tools**
- **oil supply for turbine engine lubrication**
- **winches (maintaining line tension)**
- **auxiliary/emergency power**