



Together, we can...

Industrial Hose Solutions



ENGINEERING YOUR SUCCESS.



Contents

Introduction	2
Quick Facts	2
Phone Support	
Engineering/Technical Support.....	4
Custom Made Hose.....	4
Customer Service.....	5
Parker Solutions	6-27
Cross References	
Hose Series.....	28
Applications and Hose Types.....	28-29

Together, we can...

Whether you have an extremely challenging application or are just looking for a better hose option, you've come to the right place.

No other industrial hose manufacturer offers the breadth of products, expert custom compounding and manufacturing, R&D and engineering capabilities, assured availability and fast delivery options that Parker does.

This booklet contains 22 quick-read, real-world examples of the diverse ways we have worked together with customers to solve their industrial hose challenges. The quick facts that follow here provide an overview of some of the capabilities that position Parker to say, "Together, we can..."

Quick Facts

- Parker has an unrivalled selection of industrial hose products and continues to lead the industry with new product development that excels at a variety of specifications, certifications and performance.
- Continuous improvement and new product development usually mean that the solution to your challenge is a readily available Parker product.
- Flexible, lightweight and vibration-dampening alternatives are now available through Parker's composite petrochemical hose offering, and a unique, state-of-the-art production line improves precision and delivery time over traditionally hand-manufactured composite hose.

- Only Parker has the “Circle of Safety™” program. Validated crimp specs are on-line and incorporate specific hose and coupling testing to guarantee that hose assemblies will meet or exceed the rated working pressure of the hose. In addition, liability protection is provided for our Circle of Safety distributors.
- Custom large bore manufacturing capabilities complement dedicated engineering and quotation resources to quickly respond to opportunities. We can produce longer or shorter lengths, a wide range of hose constructions and everything from private-branded products with simple color changes to complex and proprietary custom applications.
- Extensive lab capabilities are maintained for developing and analyzing compounds and finished goods, plus mechanical, environmental and chemical testing. Certification testing includes but is not limited to ARPM, ASTM, FDA, SAE, UL, ISO and EN.
- Compounding over 90 million pounds of rubber annually enables Parker to consistently control product quality and availability.
- Our expanding warehouse footprint, plus our Parker Service Centers located across the U.S., support fast and demand-driven delivery requirements including JIT and kanban systems.



Help is just a phone call away

Whatever your needs, we pride ourselves on being a phone call away, ready to help assess your challenge and identify the Parker product or develop the custom solution that precisely meets your needs.

Dedicated field sales support with exceptional geographic coverage puts highly knowledgeable people where you need them. Plus, a choice of toll-free numbers connects you to the help you require.

Engineering/Technical Support

A primary contact for technical support, applications questions and training information

8:00 AM to 5:00 PM ET • **800-608-0876**

8:00 AM to 5:00 PM PT • **522-622-3112**

Custom Made Hose

Direct contact with designers who can provide a professional solution and quick quotation for your custom made hose application

Salisbury, NC

7:00 AM to 4:30 PM ET • **800-438-2004**

Arvada, CO

7:00 AM to 4:00 PM PT • **800-783-3922**

Customer Service

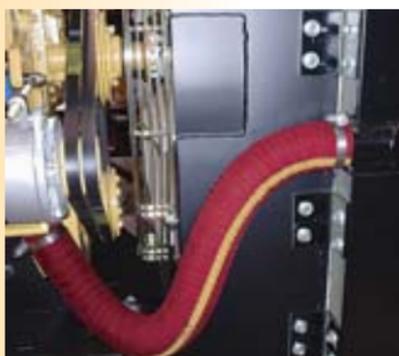
Customer service reps are available nationwide—12 hours per day—to address customer concerns, orders, general product information, price and availability

8:00 AM to 8:00 PM ET

Eastern USA • **866-810-HOSE (4673)**

Western USA • **800-242-HOSE (4673)**

The solutions that follow provide a glimpse of how we've helped other companies and may even spark some ideas. So whenever you're ready to look for an improved product or solve a difficult problem, "Together, we can..." meet that industrial hose challenge with a solution that precisely meets your individualized needs. Just give us a call or visit www.safehose.com.



Silicone Hose is a “Fare” Solution on this Bus

Customer Challenge

Powerful engines in relatively tight compartments are an ongoing challenge for coach and bus manufacturing companies. To meet the extreme heat, cold and tight bend-radius requirements, one manufacturer had been using pre-formed hose and tube assemblies. Not only were these methods expensive, but they also required a variety of different connections, technologies and vendors.

Parker Solution

Working with Parker, the manufacturer learned that 6621 X-treme Plus SF Series Hose could solve a busload of problems. This super-flexible silicone hose allows easy routing of coolant and heater point-to-point connections, eliminating expensive and hard-to-replace pre-formed products. Resistant to coolant, cracking, ozone, cold leaks and peeling, this durable hose also withstands engine heat up to 392°F.



Step Right Up... Entertainment for All Ages

Customer Challenge

Amusement parks thrive on sights, sounds and action. So it made perfect sense when a supplier to the parks came to Parker looking for flexible potable-water hose that was both brightly colored and semi-transparent. To meet municipal requirements, the hose also had to be food-grade NSF International certified.

Parker Solution

Series 125 Nexbraid® PVC Hose with braided reinforcement rang the bell for its certifications, flexibility and see-through features. Then Parker's lab worked to develop a range of fun colors including the industry's first gold water hose. A big hit with the customer, their favorite is the hose that changes from one color to another over the length, for which they charge a premium.



Safety and Value: Barber Pole Hose Is a Standout

Customer Challenge

An oil refinery was using a competitor's steam hose for cleaning storage tanks and wrapping oil lines. The four bolts on every fitting required frequent maintenance to avoid dangerous blow-offs and energy loss due to leaking steam. Material degradation and easy visual identification of the steam hose were also safety concerns.

Parker Solution

A high-value solution and peace-of-mind were immediately available to this new customer with Parker's Series 7285 Dragon Breath® II Chlorobutyl Barber Pole Steam Hose. The red/black barber-pole striping allowed easy identification from any angle over great distances. But it was also easy for the customer to see the long-term value. The durable composition and construction would help overcome degradation problems and increase product life, and the no-skive hose could be crimped, reducing energy loss and maintenance time while enhancing safety.



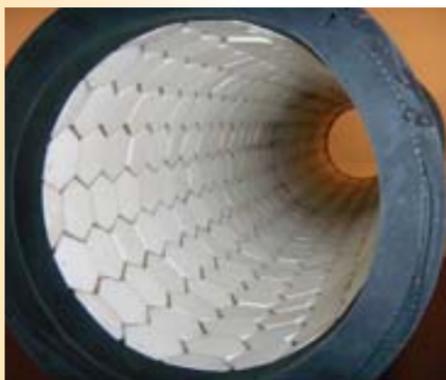
No Need to Dredge Up Your Own Specs

Customer Challenge

A boom with an articulating arm was being installed on a dredge barge to pull sand out of a lake. The customer knew they needed 45' of hose, but didn't know how to spec it.

Parker Solution

Customer Service put a designer on the line who could visualize the application and a solution was quickly formulated and quoted. Rather than the costly 45' section of corrugated suction hose the customer assumed was needed, the designer combined a 10' section of ES908 Dredge Discharge Hose to go along the boom with a 35' section of EW709 Sand Suction Hose for the articulating arm. The two sections could be bolted together by the customer on site. Direct contact with a designer ensured a fast quote for the right products and saved the customer money.



When the Going Gets Really Rough, Parker is 12 Times Tougher

Customer Challenge

A steel casting operation was frequently replacing the hose used in the carbon-injection process to prep the furnace. Although the harsh environment was a factor, the bigger problem was the highly abrasive, dry-powdered carbon that was rapidly degrading the interior of the hose and fitting. Replacement cost, maintenance and downtime were adding up to a significant expense.

Parker Solution

Leave it to Parker to come up with a solution that has outperformed the competition by 12 to 1 – and it's still going strong. Offering the highest abrasion resistance in the industry, CERGOM hose combines a revolutionary tube material of ceramic hexagonal plates embedded in SBR/ NR-rubber compound plus a reinforcement of synthetic textile fabrics, embedded steel wire helix and built-in copper wire. With each passing month, the cost savings for this happy customer just keep piling up.



Armada Rescues Boat Builder From a Sea of Hoses

Customer Challenge

A boat and yacht builder was floundering with specifying a myriad of hoses to meet the requirements of diverse media and temperatures, tight spaces, international certifications, etc.

Parker Solution

Combining innovative design and high-performance materials, Series SW569 Armada® Fuel, Wet Exhaust & Multipurpose Hose sped to the rescue. This highly flexible, versatile hose meets or exceeds more marine industry standards than any other hose. It's a single source, single hose solution for: tight spaces such as engine compartments; bilge pump intake, discharge and ventilation; cabin heating; coolant and radiator service; gasoline and diesel fuel systems; lubrication systems; wet-exhaust systems; non-potable water systems in galleys; and toilet and bath connections. Wave goodbye to problems with Armada hose.



Turning Blue Thunder into a Rainbow

Customer Challenge

To help its customers and stand out from the competition, a chemical truck manufacturer wanted to offer six colors of high-quality, private-branded, color-coded chemical hose for its trucks. They wanted the color coding so that customers could easily differentiate the hoses and not risk contamination by running different chemicals through the same hose. Their old supplier couldn't fill the bill.

Parker Solution

Series 7373T Blue Thunder® UHMW (Ultra-High Molecular Weight) hose was the obvious choice because its polyethylene tube handles 98% of the most commonly used chemicals without risk of leaching or contamination. Parker's rubber compounding capabilities turned Blue Thunder into a rainbow of new colors, helping avoid chemical mix-ups by the end users and providing a competitive advantage for the customer.



Where the Wine Flows Freely

Customer Challenge

A major winery wanted to find a better hose for transferring wine between storage tanks and for pumping the wine into tank trucks. They wanted a more flexible, lighter-weight, crush resistant hose that wouldn't collapse and decrease or block the flow of wine. It was also important that the food-grade hose would not alter the taste or "nose" of the wine.

Parker Solution

Replacing the competitor's hose, Series SM382 Harvest Plus Food/Beverage/Wine Suction Hose now keeps this customer's wine flowing freely. Manufactured on stainless steel mandrels, the ultra-smooth, bacteria-free tube does not impart taste or odor. Its monofilament helix reinforcement keeps the hose lightweight, easy to handle and crush- and kink-resistant. The winery may no longer stomp on its grapes, but they could stomp on this hose and it would bounce right back.



Cutting the Grass Without Cutting into Profits

Customer Challenge

Customer complaints and warranty issues were beginning to add up for a manufacturer of lawnmowers. The problem was that the typically small engine compartments of the lawnmowers required an extremely tight bend radius for the oil-return line. The competitor's hose they were using just couldn't handle the bend radius consistently without kinking.

Parker Solution

Parker understands that hose requirements are generally an afterthought in engine design. The hoses have to conform to the design, not the other-way-around. But Series 7219 E-Z Form™ hose was the easy answer to this new customer's problem because it easily exceeds the bend radius of other hoses with no kinking and avoids the use of costly, formed hose. This solution is also saving the customer time and money because there is no design, fabrication or additional tooling required.



Together, We Can...Kanban

Customer Challenge

Working to improve production efficiency, a manufacturer of mobile fuel pumping systems came to Parker. They were using another supplier for about 20 different hoses and assemblies, and there were a few “kinks” in the system. The primary problem was longer delivery lead times that either delayed manufacturing or required excess inventory, causing a strain on floor space and the bottom line.

Parker Solution

Exceptional products and assemblies plus the availability of next-day delivery from a Parker Service Center (PSC) were just part of the solution. Parker’s Lean Manager and other personnel stepped in to help this new customer validate their assembly process and institute a kanban system that responds quickly to changes in manufacturing demand. The new system is working like clockwork, “pulling” the right products at the right time from the PSC.



Dock Workers Give Two Thumbs Up to Composite Hose

Customer Challenge

An oil refinery was using 8" ID rubber hose to transfer oil from ships to fixed-piping systems on the dock. The large hose was extremely heavy and stiff. Moving the cumbersome hose around and maneuvering it into position was a difficult and time-consuming task with the added potential for injury to the workers.

Parker Solution

Working together with Parker, the refinery switched to Series 2100 Petroleum Transfer Hose, a composite hose that is both lighter and more flexible, even at low temperatures. The ABS (American Bureau of Shipping) Certified hose assembly incorporates multiple layers of polypropylene with galvanized steel reinforcement and a PVC-coated polyester cover. Saving workers' backs and valuable dock time, the customer's new composite 8" hose weighs only 10 lbs per ft and has a 29" bend radius.



Now You See It, Now You Don't

Customer Challenge

A manufacturer of uniforms and other apparel had been using Parker's 1/4" Series 7093 GST® II Hose for zipper pulls on certain apparel and gear. The EPDM tube and cover provided excellent heat, weather and ozone resistance, and the pull was easy to grab even when wearing heavy gloves. However, a new project came up for one of the branches of the U.S. military that required the pull to be a specified shade of a camouflage color.

Parker Solution

Custom color matching for the project proved no problem for Parker. The lab then took the project one step further to ensure the zipper pull's ability to hold the color when exposed to sunlight and other environmental factors. The zipper pull is now effectively camouflaged but the results were just what the customer wanted to see.



Nachos With Extra Cheese, Please

Customer Challenge

A convenience store chain was looking for a “cheese tube” that could withstand microwaving followed by pumping action in a melted-cheese dispenser. It was important that the tube, which was attached to a bag of cheese, would maintain its shape to avoid clogging and that no extractables would leach into the cheese. NSF International Certification was also required.

Parker Solution

Eager to lend a hand on this project, Parker met with different material suppliers for recommendations on available thermoplastic compounds. The solution developed was then tested by the customer versus several competitors’ products. Testing included microwaving and then putting the tube in a peristaltic pump to test its ability to rebound to its original shape. The cheese challenge went to Parker.



A Solution That Bears Repeating (Every Six Inches...)

Customer Challenge

A bus manufacturer was cutting 3' sticks of Parker's 6750 X-treme 3-Ply 20R1 Coolant Hose into 6" pieces to bundle and insulate hydraulic hoses in engine compartments. The loose pieces were in a variety of diameters and did not include the ID from the layline due to their short length. Consequently, a lot of time was being wasted measuring to find the right diameter pieces.

Parker Solution

To help make size recognition easier and faster for the customer, Parker made the 3' silicone sticks with the ID printed every six inches on the backside of the hose, opposite the layline. From complex engineered solutions to something as simple as a six-inch repeat of a key dimension, Parker custom hose manufacturing is ready to help.



From Simple Hookup to High-Value Accessory

Customer Challenge

A manufacturer of high-end, large appliances wanted to launch an aftermarket program to encourage consumers to buy their replacement hoses rather than ones from local hardware stores. The hose needed to be of very high quality, superior to stainless steel hose, with a high-end appearance that was easily recognizable and couldn't be duplicated.

Parker Solution

Parker developed a universal hose that could be used with a variety of types and brands of appliances. The black-nylon over-braided cover is similar to high-end automotive hoses, with an added color fleck that makes it easy to recognize. Offering superior performance to stainless steel hose, strength, durability, a non-conductive surface and a distinctive look, the new hose has taken its place as a high-value accessory.



Costly Engine Problem Gets E-Z Solution

Customer Challenge

Road paving equipment is constantly exposed to tough conditions. A manufacturer of this equipment was having a recurring problem with the engine's oil-return line kinking due to the tight engine space and rugged use in harsh conditions. For end users, it could mean reduced engine performance, failure or harm to the engine, plus expensive downtime. For the manufacturer, it could bring about costly warranty issues and customer dissatisfaction.

Parker Solution

Parker was quick to supply this customer with Series 7219 E-Z Form™ MP Hose. An economical alternative to formed hose, E-Z Form can literally be tied in knots and still deliver full-flow performance with no kinking. Its tough MP (multipurpose) construction includes a nitrile inner tube, reinforcing plies with a helical wire, a chloroprene cover and a maximum temperature to 250°F.



Precision Delivery of Things That Go “Boom”

Customer Challenge

A manufacturer of specialized trucks and bulk explosives for surface mining needed help with a pair of hoses used in blasting at the bottom of boreholes. They required one hose to pump the emulsion into the hole and a smaller hose to pump in a variable amount of gassing chemicals to mix with the emulsion, expanding it to the desired density and creating the blast. The smaller hose kept getting snagged on the wall of the hole.

Parker Solution

A hose-within-a-hose solution was developed by Parker, in which the smaller hose was embedded in the wall of the larger hose. This kept the explosive contents separate in transit, ensured snag-free delivery of the emulsion and gassing chemicals to the bottom of the borehole, and allowed variable control of the gassing chemicals to optimize blast results.



Over, Under, Across and On-time

Customer Challenge

Frustrated with both product performance and availability, a new customer contacted Parker for high-pressure top-deck reel-and-platform-type aircraft fueling hose. In subzero temperatures, the competitor's hose was very stiff, making it difficult to pull off the reel and position for over- and under-the-wing fueling. Manufactured overseas, lead times for the hose were unpredictable.

Parker Solution

Parker's 7776CT Gold Label® Cold Temperature Aircraft Fueling Hose was developed to meet this challenge head on. Its proprietary rubber compound provides superior bend radius and excellent flexibility in extreme low temperatures, ensuring easy maneuverability. The customer has also been very pleased with availability of this U.S.-manufactured hose.



Watering Hose Helps Flowers and Business Grow

Customer Challenge

This was a classic case of “it never hurts to ask.” A high-end manufacturer of nozzles, sprinklers and watering accessories wanted to expand their product line with premium, private-branded watering hose. The problem was they didn’t want vinyl hose and they didn’t think they could get durable, kink-resistant rubber hose to match their brightly colored products.

Parker Solution

Working closely with the customer, Parker engineering staff met every requirement and spec including the six high-visibility custom colors, special fittings, kink-resistant profile and performance, and even the comfortable feel of the hose when gripped. Color stability of the product was ensured by Parker using both UV and ozone testing. A highly successful product line extension for the customer, this private-branded hose now anchors their eye-catching point-of-purchase displays.



Welding Hose is Lifesaver for Shipyard

Customer Challenge

For most welding applications, hoses with 3/16" to 3/8" IDs are sufficient. But that was not the case for one shipyard which approached Parker with a three-fold problem: they needed maximum-flow 3/4" hose to replace all non-conforming competitor hose, the hose had to meet CGA and ARPM standards and the hose was needed quickly to prevent OSHA from shutting them down.

Parker Solution

Parker is the only hose manufacturer to have already developed, tested and deployed inventory for just such a need. Parker Grade T welding hose is flame and oil resistant, compatible with all common fuel gases and meets CGA and ARPM requirements. Parker saved the day by shipping enough hose to keep the yard running, and adjusted production to meet additional needs.



“Cold Relief” for Tank Truck Drivers

Customer Challenge

Temperatures far below zero are a frequent challenge for a fuel delivery company in Alaska. When tank truck drivers would arrive at their delivery locations, they not only had to battle the extreme cold but were also faced with the difficulties of bending and maneuvering the extremely stiff and unwieldy fuel hose.

Parker Solution

Parker brought relief to this customer and many others with the development of Series SWC325 Arctic Translite® Low-Temp Tank Truck Hose. This hose was engineered so that at the lowest temperature range it is 25 to 40% more flexible and offers a 50% tighter bend radius when compared with competitors' products. This exceptional flexibility means that fuel deliveries are now easier, faster and safer for this customer's personnel.



Takes a Licking and Keeps on Transmitting

Customer Challenge

A construction company was using data cable to transmit fuel levels being conveyed through hose while fueling construction equipment in the field. The data cable was merely hand-taped to the outside of the fuel hose making it vulnerable to damage and data loss.

Parker Solution

Diverse products and capabilities plus a “can-do” team effort solved this challenge. Parker’s Industrial Hose Division supplied the high-flexibility corrugated SWC609 TITANFLEX® Petroleum Suction Hose; Parker’s Energy Products Division’s Multitube unit secured the data cable to the suction hose with a polyurethane wrap; and the distributor added the connections. This teamwork paid off for the customer with a rugged, high flexibility data cable/fuel hose combination that ensures both accurate data delivery and easy fuel delivery in a harsh environment.

Cross References

Use these cross-reference charts to help identify the products or applications of interest to you.

Hose Series	Page
125 Nexbraid® Reinforced PVC Hose	7
2100 Composite Petroleum Transfer Hose	16
6621 X-treme Plus SF Silicone Hose	6
6750 X-treme 20R1 Coolant Silicone Hose	19
7219 E-Z Form™ Hose	14,21
7285 Dragon Breath® II Hose	8
7373T Blue Thunder® UHMW Hose	12
7776CT Gold Label® Aircraft Fueling Hose	23
CERGOM Hose	10
ES908 Dredge Discharge Hose	9
EW709 Sand Suction Hose	9
Grade T Welding Hose	25
GST® II Hose	17
SM382 Harvest Plus Hose	13
SW569 Armada® Fuel, Wet Exhaust Hose	11
SWC609 TITANFLEX® Petroleum Suction Hose	27

Applications and Hose Types	Page
Abrasive dry-carbon	10
Aftermarket hose program	20
Aircraft fueling hose	23
American Bureau of Shipping (ABS)	16
Amusement park	7
Appliance	20
Articulating arm	9
Barber pole hose	8
Bend radius	6,14,21,26
Beverage dispensing	7
Blasting	22
Bus	6,19
Camouflage	17
Cheese dispenser	18
Chemical hose	12
Clothes washer	20
Cold temperature	23
Color-coded hose	12
Colored semi-transparent hose	7
Composite hose	16
Construction	27
Coolant hose	6,19
Crimped hose	8
Custom color matching	17,24
Custom marking	19,20

Data hose	27
Dragon Breath hose	8
Dredging	9
Engine compartment	6,19,21
Extreme cold	26
Flexible hose	6,11,14,21,23,26,27
Food / beverage / wine hose	13
Fuel hose	11,26,27
Garden hose	24
Hose-within-a-hose	22
Kanban	15
Lawnmower	14
Lean manufacturing	15
Marine hose	11
Mining	22
Multitube	27
NSF International	7,18
No-skive hose	8
Oil refinery	8,16
Oil-return line hose	14
Over-braided cover hose	20
Parker Service Center (PSC)	15
Petroleum transfer hose	16
Potable water hose	7
Private branding	24
Road paving	21
Rubber compounding	12
Semi-transparent hose	7
Shipbuilding	25
Silicone hose	6,19
Steam hose	8
Steam-cleaning	8
Steel casting	10
Suction hose	9,13,27
Surface mining	22
Thermoplastic compounding	18
UHMW hose	12
Water hose	24
Welding hose	25
Wet exhaust hose	11
Winery	13
Zipper pull	17

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