



The Fluid Connectors Solution for Airport GSE

Your source for product, equipment, service
and support

aerospace
climate control
electromechanical
filtration
fluid & gas handling
hydraulics
pneumatics
process control
sealing & shielding



ENGINEERING YOUR SUCCESS.

For Ground Support Equipment MRO, Parker Goes Above and Beyond.



If getting aircraft into the air is your responsibility, then leaking hydraulic hose assemblies should be the least of your worries.

Speed, efficiency and accuracy are imperative in ground handling services to minimize aircraft time on the ground.

To best serve the needs of GSE operations, Parker Hannifin, the world leader in “dry technology” for the fluid power industry, is your single source for high-quality hose and hose fittings, tube-fittings, thermoplastic tubing, brass fittings and valves, quick disconnect couplings and assembly tools.

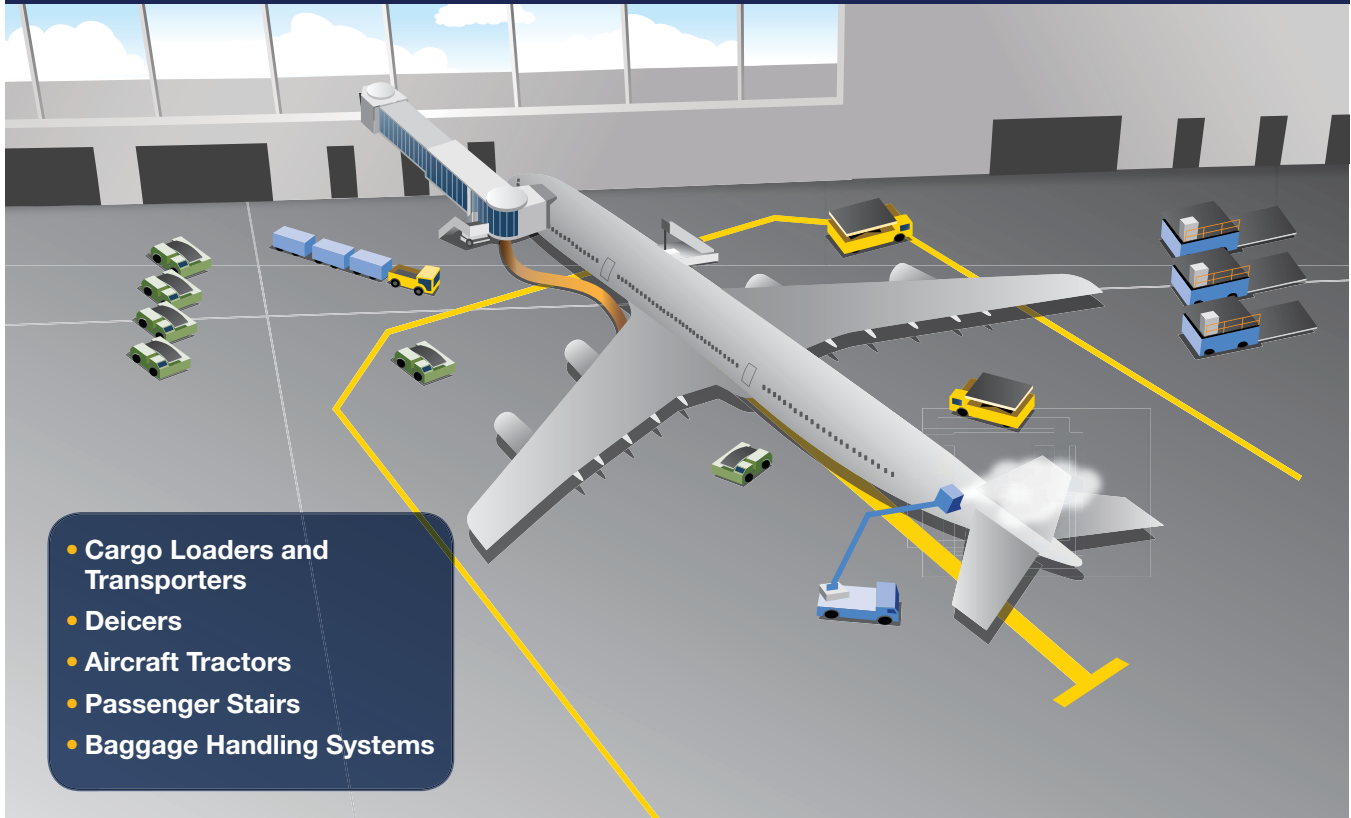
Parker offers a broad range of programs designed to reduce operating costs, improve productivity, manage inventory, address safety and environmental issues, and more.

And Parker’s nationwide distribution network is available around the clock to provide what you need – from genuine Parker parts to value-added advantages including kitting, systems solutions, technical support, training and stocking product.

Look to Parker for Complete Coverage

Because uptime, solid performance, productivity and profitability are your continual goals, one convenient and reliable source is strategically ideal. Keep your equipment up and running with Parker products and services for hydraulic systems across the entire scope of your ground, aircraft and airport facilities support operations.

Parker Serves and Supports the Full Scope of Airport GSE





Parker Solutions for Your Key Applications

Motion-Control Hydraulic Systems, Loaders, Tow Tractors and Deicers
For booms, cabin controls and deicing applications, Parker offers the most comprehensive line of hoses and all the fittings and options you'll need.

Parker's braided hose is flexible and can be routed in tight spaces, enabling you to use less hose on smaller size IDs (-4 through -8). It is also engineered to handle high impulse and pressure demands of ground support equipment. Parker's Tough Cover/Super Tough Cover (TC/ST) provides excellent abrasion resistance, withstanding 80/450 times the abrasion resistance of a standard rubber cover.

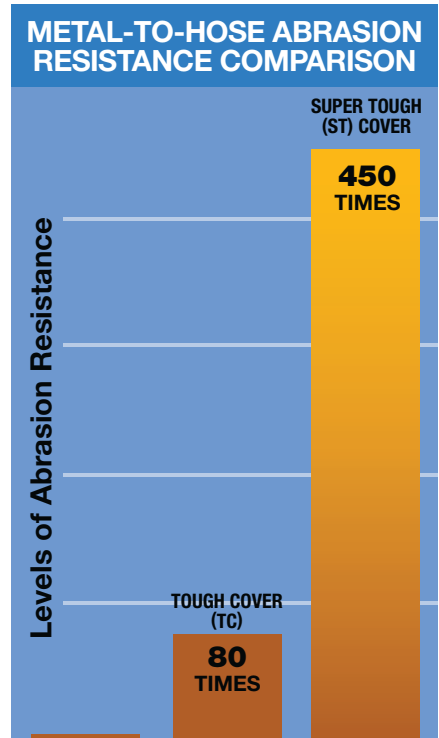
Large Hose ID/High Working Pressures
For larger-size (-10 through -32) high-pressure hydraulic/glycol applications, Parker's spiral hose provides the pressure performance

These hoses are among the products Parker recommends to cover your GSE needs along with Partek Sleeving, 37° Flare Fittings and Pipe Swivels:

you need, plus the flexibility of a braided product. Parker's spiral hose undergoes more stringent impulse testing (more cycles) than braided hose to withstand the most severe applications. Parker's spiral hose features half the SAE 100R12 bend radius, offers TC/ST cover options, and offers smaller packaging options.

Parker's superior plating provides protection against corrosion, while our stainless steel and aluminum products are aptly suited for deicer applications.

Make Parker your hydraulic supplier of choice for your loaders, tow tractors, and other equipment. We offer a variety of abrasion-resistant cover choices, maximum flexibility, a wide range of media flexibility - and hoses made specifically for high and low temperatures, excellent bendability and abrasive environments.



Results from ISO 6945 metal-to-hose abrasion test show that Tough Cover and Super Tough cover hoses offer significantly greater abrasion resistance than standard rubber cover hose.



471TC/ST



301LT



721TC/ST



772LT

Services and Support to Keep You Moving



F42



774

For pressure/glycol applications, Parker offers the widest EPDM O-ring face seal, 37° fittings and pipe adapters.

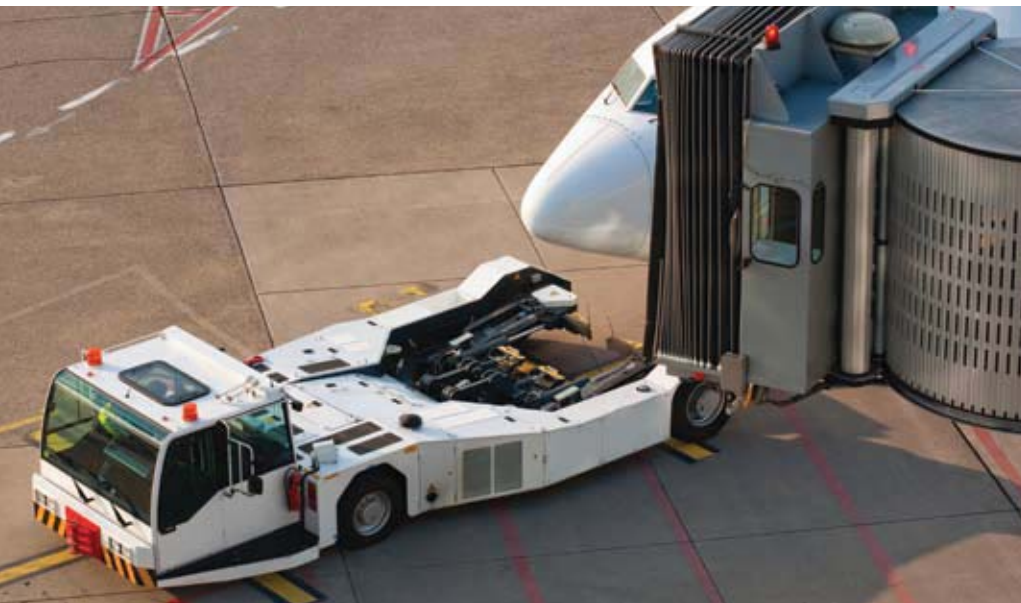
Ground Support Equipment/ Auxiliary Power Units (APUs) using Skydrol®

Parker offers the industry's largest selection of low, medium and high pressure hoses specifically designed to resist aggressive airline hydraulic fluids. Parker's phosphate-ester hose line, together with the proper EPDM ORFS and 37° flare fittings and pipe adapters means your leak-free assemblies will be the last thing to worry about.

Parker customers. By using the secure Web-based application, PTS generates a unique identification code for each hose assembly which is printed on an ultra-durable barcode or RFID label. PTS labels are specifically engineered to withstand harsh chemicals, temperatures, UV exposure and other challenging conditions.

With PTS, you can:

- Receive fast and accurate product identification to speed replacement, regardless of where the original assembly was made
- Replace hose assemblies with only the PTS ID number, eliminating the need to remove hoses prior to replacement
- Gain critical machine uptime, schedule repairs more conveniently, and take advantage of "call ahead" and "site delivery" options
- Use the reporting tools to gain insight to hose assembly usage and to assist in continuous improvement/preventative maintenance initiatives



Applications Using Phosphate-ester Based Fluids

Parker offers EPDM hose with excellent compatibility for ground support and aviation test equipment using phosphate-ester based hydraulic fluids. Both braided and spiral constructions, pressures up to 5,000 psi and hose ID from -4 through -32 are available to handle your complete range of needs.

The Parker Tracking System® (PTS) reduces vehicle or asset downtime by increasing the speed, timing and accuracy of necessary hose assembly replacements. PTS is a unique and valuable service available only to

Parker's Parkrimp® family of crimpers enables you to make your own hose assemblies while providing the versatility of being both portable and bench mounted. Either on the truck or in the shop, one crimper can perform the task of two standard crimpers - helping to reduce your equipment investment.

Parker's Parkrimp system provides valuable convenience and accuracy advantages including:

- Parker's exclusive Parkalign™ system, which positions the fitting in the die for a perfect crimp every time
- Efficient bottom-loading design for easier management of long hose assemblies





The modular Karrykrimp® and Karrykrimp®2 enable any user to make factory-quality hose assemblies quickly, easily and cost-effectively. These Parkrimp models are designed to crimp fittings to the proper diameter every time, eliminating the need to dial variable settings, and they require no calibration.



- **Linked dies that prevent segments from being misplaced or mismatched**
- **Dies that are color coded by size for easy identification and reduced set-up time**
- **Durability that provides years of reliable service**
- **Crimpsource (www.parker.com/crimpsource), the most complete online resource for Parker crimp specifications, technical manuals, decals and more**

Supporting You When and Where You Need It

Parker's extensive distributor network gives you the advantage of local Parker retail stores providing quick turnaround of assemblies.

In addition, your Parker distributor can:

- **Keep you up and running with hydraulic hose assemblies and many complementary products to support your operations and decrease your downtime**
- **Provide you with knowledgeable technical support and professional services 24/7/365, all with convenience and efficiency of a locally based service provider**

As a Parker customer, you also have access to our mobile HoseDoctors® network of professionals specializing in prompt, highly qualified onsite repair service.

Talk with your Parker representative today, and see how we can serve, support and help improve your operations with industry-leading efficiency and expertise.



Get to Know Parker, the Industry Leader

TUBE FITTINGS

Whenever and wherever your mobile equipment is hard at work, Parker is your unbeatable advantage for tube fitting selection, availability and dependable leak-free performance. Industry-leading designs including Seal-Lok™ O-ring face seal fittings and Triple-Lok® 37° flare fittings are available only from Parker. And with our worldwide distribution network, you get Parker fittings and adapters not just wherever, but whenever you need them. This is also true of Parker's extensive selection of shaped pipe fittings, available in both forged and extruded brass.



- **Seal-Lok™ O-ring face seal fittings have a patented Trap-Seal, ensuring consistently positive retention in the groove**
- **Triple-Lok® 37° flare fittings incorporate a patented, robust port stud on SAE port ends for easy installation and eliminate potential back-up washer damage leading to leaks**
- **Available with SAE, ISO, NPT and BSP ports**
- **Sizes range from -2 to -32**

QUICK COUPLINGS, CHECK VALVES AND SWIVELS

Essential for improved performance, non-spill quick couplings allow hydraulic lines to be connected and disconnected quickly without tools. FF and FEM Series have flush face valves and HTMA compliance for clean, safe operation. Parker inline check valves eliminate the potential damage of fluid back-pressure. They're available in a variety of sizes, pressure ranges, flow capacities and crack pressures. Parker swivels allow hydraulic lines to twist and turn, preventing the premature hose failure caused by repeated torque.



- **FEM & FF quick couplings**
- **PS & S swivels**
- **CV & DT check valves**

MAKE FACTORY-QUALITY HOSE ASSEMBLIES AT YOUR SITE

When it comes to blown hose assemblies, no one puts it back together like Parker. We offer a variety of crimping machines, No-Skive hoses, and No-Skive fittings to make field repairs fast. Built to provide years of dependable service, the Parkrimp system produces factory-quality hose assemblies quickly, easily and cost effectively. In fact, it's so easy, anyone can do it!

Parker Modular Crimper®

- **Parker's family of Parkrimp models can crimp straight or bent-stem fittings from 1/4" to 2" in diameter and cover needs ranging from high-volume productivity to portable, on-site assembly.**

- **The modular Karrykrimp® and Karrykrimp®2 offer all the advantages of Parker's Parkrimp system, which enables any user to make factory-quality hose assemblies quickly, easily and cost-effectively.**
- **Parkrimp-style crimpers are designed to crimp fittings to the proper diameter every time, eliminating the need for users to dial variable settings that can produce mis-crimps. The units require no calibration and continuously produce proper crimps.**

Four Possible Combinations



Parkrimp 1
82C-KKB



PHastkrimp
85C-KKB

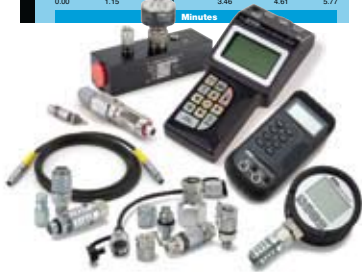
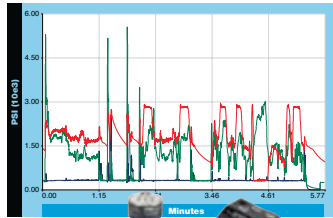


Karrykrimp
82C-061L



Karrykrimp 2
85C-061L

DIAGNOSTIC EQUIPMENT



Monitor, analyze and optimize. Parker's SensoControl diagnostic equipment is perfect for detecting system vital signs. From digital pressure gauges to sophisticated meters with multiple inputs, it enables you to view and record pressure, temperature, flow and rotational data. By capturing momentary pressure spikes and flow surges, SensoControl equipment can help to identify potential problems before they cause damage, and it can provide the critical information needed to optimize vehicle hydraulics.

HOSE DOCTORS®

Mobile services are on call: Parker's HOSE DOCTORS® network of independently-owned service technicians provides replacement hose assemblies wherever their customers need them, with the fastest response times possible. With more than 200 operators in North America, HOSE DOCTORS are an extension of the worldwide Parker distribution network, coupling their service commitment with Parker products – the highest-quality hose and fittings available in the market today.



- **Fully stocked with Parker parts and equipment**
- **On-site replacement hose assemblies**
- **Replacement fluid connectors**

parker.com/hosedoctor

PARKERSTORES



With around-the-corner convenience, ParkerStores provide walk-in customers the ability to select more than 3,000 parts in stock, in all major thread configurations, including metrics, in a retail environment. Whether you need a replacement hose assembly, fittings for an upgrade or advice on how to complete a connection, count on the wide selection and product expertise you'll find at your local ParkerStore. With more than 450 locations in North America alone, ParkerStores are yet another way to support your operation and keep it running smoothly.

parker.com/parkerstore

SAFETYWORKS



SafetyWorks is a highly interactive and collaborative training program offered by Parker and our distributors to promote safe practices and operating conditions as they relate to fluid systems.

The program is a series of three modules, each about 20-30 minutes long. They can be delivered within an existing training schedule or used at noontime, when shifts change, or at the beginning or end of the day.

- **Injection Injuries:**
A hydraulic injection injury can appear quite minimal to the unsuspecting examiner. As a result, delays in seeking treatment can occur with potentially devastating results. This module helps people avoid injection injuries and understand the importance of timely treatment should an injury occur.
- **Hose Safety Standards:**
Improper selection or use of hose, tubing, fittings, or related accessories can cause death, personal injury and property damage. This module reinforces proper hose assembly and routing procedures to help prevent premature failure and reduce the risk of such occurrences.
- **S.T.A.M.P.E.D.:**
This systematic method of product selection assists in identifying fluid connectors and conductors for different applications. By learning to make product selection by S.T.A.M.P.E.D. – size, temperature, application, media, pressure, ends and delivery – safe and efficient fluid systems are virtually guaranteed.

The SafetyWorks program is part of Parker's commitment to helping people in all types of jobs learn, understand and follow safe practices. For more program information or to sign up for the modules, contact the SafetyWorks team at safetyworks@parker.com.

Parker Fluid Connectors Group

North American Divisions & Distribution Service Centers

Your complete source for quality tube fittings, hose & hose fittings, brass & composite fittings, quick-disconnect couplings, valves and assembly tools, locally available from a worldwide network of authorized distributors.

Fittings:

Available in inch and metric sizes covering SAE, BSP, DIN, GAZ, JIS and ISO thread configurations, manufactured from steel, stainless steel, brass, aluminum, nylon and thermoplastic.

Hose, Tubing and Bundles:

Available in a wide variety of sizes and materials including rubber, wire-reinforced, thermoplastic, hybrid and custom compounds.

Worldwide Availability:

Parker operates Fluid Connectors manufacturing locations and sales offices throughout North America, South America, Europe and Asia-Pacific.

For information, call toll free...

**1-800-C-PARKER
(1-800-272-7537)**

North American Divisions

Energy Products Division

Stafford, TX
phone 281 566 4500
fax 281 530 5353

Fluid System Connectors Division

Otsego, MI
phone 269 694 9411
fax 269 694 4614

Hose Products Division

Wickliffe, OH
phone 440 943 5700
fax 440 943 3129

Industrial Hose Division

Strongsville, OH
phone 440 268 2120
fax 440 268 2230

Parflex Division

Ravenna, OH
phone 330 296 2871
fax 330 296 8433

Quick Coupling Division

Minneapolis, MN
phone 763 544 7781
fax 763 544 3418

Tube Fittings Division

Columbus, OH
phone 614 279 7070
fax 614 279 7685

Distribution Service Centers

Buena Park, CA

phone 714 522 8840
fax 714 994 1183

Conyers, GA

phone 770 929 0330
fax 770 929 0230

Lakeville, MN

phone 952 469 5000
fax 952 469 5729

Louisville, KY

phone 502 937 1322
fax 502 937 4180

Portland, OR

phone 503 283 1020
fax 503 283 2201

Toledo, OH

phone 419 878 7000
fax 419 878 7001
fax 419 878 7420
(FCG Kit Operations)

Canada

Grimsby, ONT

phone 905 945 2274
fax 905 945 3945
(Contact Grimsby for other Service Center locations.)

