

Driving truck and bus innovation

Increase efficiency, reduce emissions

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Parker

ENGINEERING YOUR SUCCESS.



Safer, smarter, greener transport

Transport applications are fundamental to supporting the world today. From heavy-duty trucks hauling emergency supplies across continents, to buses and coaches providing vital local services… keeping people and vehicles moving safely is a top priority.

Many truck and bus professionals are under pressure to embrace new technologies, increase vehicle performance and achieve greater efficiency. If you need to fuel innovation and steer tomorrow's engineering breakthroughs, talk to Parker. We'll bring you decades of experience partnering original equipment manufacturers, vehicle body builders and operators worldwide.

Together, let's make the world a safer, smarter, more efficient place.

Tackling your transport challenges

If you're facing an engineering challenge, we're ready to support you. Parker can help solve your most complex motion and control technology problems.

Our breadth of expertise is unparalleled - ranging from individual components, to entire motion and control systems. We design and integrate engineering solutions to exact specifications and can get the best results for you and your customers.

If you need to:

- Cut fuel consumption
- Lower CO2 or particulate emissions
- Reduce vehicle weight
- Maximise cabin space
- Switch to CNG, LNG, hydrogen fuel cell, electrification or a combination (hybrid)
- Improve vehicle uptime, even in extreme conditions
- Track onboard data to improve vehicle efficiency
- Develop, test and implement innovative technologies…

…or maybe have some other technology problem you need help solving, please contact us.

Visit our industry pages →

For detailed product information, please speak to a Parker transportation specialist.



QUALITY MANAGEMENT AND CERTIFICATIONS

Quality matters. When you need a supplier with in-depth knowledge of global industry certifications and quality management standards, count on Parker.

We talk your language and understand your compliance requirements, industry standards and operating framework, including:

- IATF 16949
- ISO 26262
- PPAP
- APQP
- (EC) No 79/2009
- ECE R110
- ISO 18001
- ISO 14001
- Global emission standards.

You'll find our products offer the highest possible quality and deliver excellent performance.

PRODUCT SPOTLIGHT: A-LOK® FITTINGS

Parker's A-LOK® twin ferrule compression fittings are designed to achieve reliable, leak-free connections in high-pressure, vacuum and vibration applications. This product range is trusted by major transportation OEMs worldwide.

Manufactured to the highest quality standards, the fittings are IATF 16949 certified and (EC) No 79 approved for hydrogen service. They also conform to ECE R110 and are ISO 15500-19 tested.

A-LOK® fittings are available in a range of sizes, corrosion-resistant materials and configurations. Although made from heat code traceable 316 stainless steel as standard, other materials (including 6Mo, Alloy 825, Alloy 625 and Alloy C-276) can be supplied.



EC79 approved



Heavy-duty and medium-duty truck technologies

Airbrake fittings	Automation sensors and cameras	Cabin displays
Electrification	Fuel, air and oil filtration
Fixed and variable displacement pumps	Valves and fittings

Need support with truck technologies? Whether you need to adopt emerging technologies, reduce vehicle weight or use onboard data to track efficiency… Parker has you covered.

Constant changes around the transportation industry mean that engineers face new challenges every day. Parker is here to help with technologies and solutions for a wide range of vehicle types, including medium- and heavy-duty trucks, trailers, tractors and refuse vehicles.

We'll help you build and integrate complex subsystems that meet the highest quality standards and go the distance for reliability. Our fittings, tubing, hoses, quick couplings and systems can increase truck reliability and uptime - helping supplies to be delivered on time across the globe. And if you're exploring alternative fuels such as CNG, LNG or hydrogen fuel cell technology, we have products that can support the journey.

PRODUCT SPOTLIGHT:
GVM

Parker's Global Vehicle Motor (GVM) is a highly-efficient permanent magnet motor designed for use in a wide variety of transport applications, including refuse trucks, light commercial vehicles and city buses.

This motor is a powerful choice for traction, pump, steering and auxiliary functions, even in the harshest environments. Its compact design helps to reduce the size of onboard energy storage – freeing up vehicle space and leading to cleaner, more economic vehicles. Water cooling increases torque density and allows silent operation.

The GVM series is IP67 rated and designed to be shock-proof, vibration-proof and resistant to salt spray. A kit range (GVK) is also available, with integration support provided on request.



Considered solutions * Expert engineering * Global reach

Wherever you're based, whatever you manufacture or assemble, Parker is nearby. We're in your time zone, speak your language and deal with your currency. Choose our team and you can access an integrated network of global manufacturing plants, sales and service in all major countries.

Truck portfolio

Parker's robust, well-designed products can support all your transportation application requirements - from cabin to chassis, drivetrain, engine and hydraulic system.

Selected products from our extensive truck portfolio are shown below.

HYDRAULIC SYSTEM

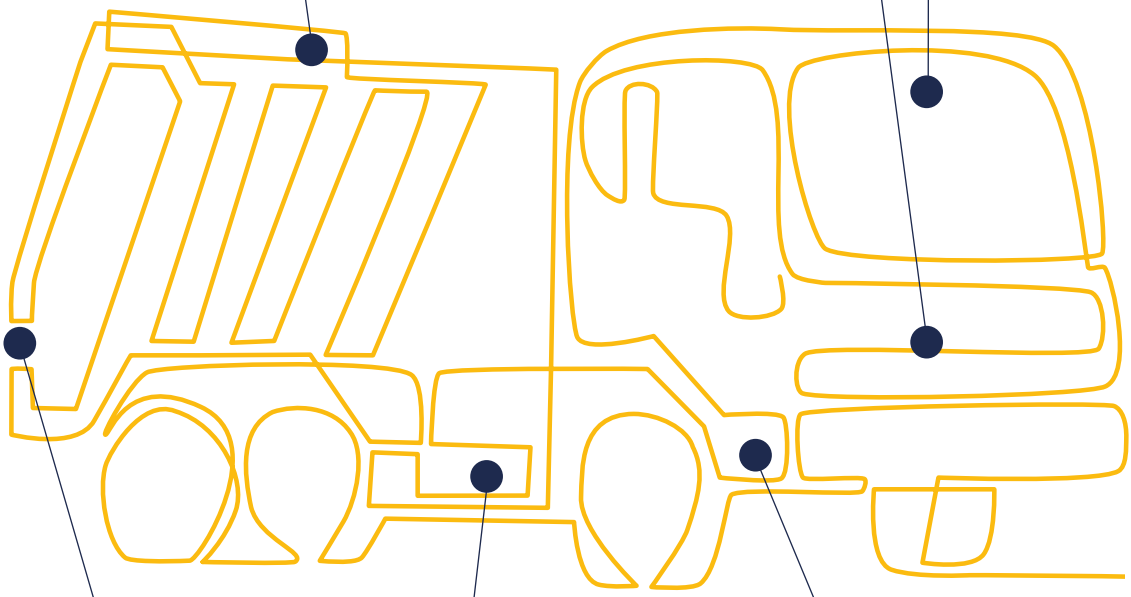
- Piston pumps (fixed and variable displacement)
- Vane pumps
- Hydraulic mobile control valves (manifolds and cartridges)

ENGINE

- Crankcase ventilation
- Fuel, air and oil filtration
- SCR heated hose and solenoid valves
- Hydraulic solenoid cartridge valves (engine brake and oil temperature control)
- Hydrogen hose and connectors

CABIN

- IQAN electronic controls
- ProDisplay 12 HMI



BIN/LIFTING

- Automation sensors and cameras
- Pneumatic actuators and valves

CHASSIS

- Pneumatic tube and connectors (including air brake and suspension)
- CNG fuel regulation module, valves and regulators
- Hoses and connectors for CNG/LNG systems
- Hydraulic pipe, hose and connectors

DRIVETRAIN

- E-traction (motors/ inverters)
- E-PTOs
- PTOs

Explore Parker's truck solutions →



Technologies to extend vehicle life

| Spin-on and insert filters | Alternative fuel coalescers |
| Crankcase ventilation | Engine air filters |

In tough market conditions, many truck and bus professionals are under pressure to extend vehicle life. Parker can advise you how to get the best performance from older fleets – from improving fuel efficiency, to installing a more energy-efficient engine and components in vehicles taken out of service.

Regular servicing is business-critical to keep vehicles running. Throughout a service interval, the efficiency of low-quality filters often decreases. This can lead to lower fuel efficiency, with less power available to the vehicle.

High-quality filtration safeguards engine reliability and vehicle profitability. After all, the last thing you need is a clogged filter leading to reduced power output and a breakdown.

Parker's advanced filtration technology is engineered to provide the cleanest, most efficient solution in the market. Our industry-leading filtration brands, Baldwin and Racor, protect vehicles from the widest range of contaminants… including moisture, particulates, rust, scale, microbial growth, asphaltenes and dust. This helps to avoid engine wear, breakdowns, unscheduled maintenance and fleet downtime.

We have won quality awards from world-leading engine and equipment manufacturers. With more than 100 years of experience in our business, you can rely on Parker for all your filtration needs - and keep your vehicles on the road.

PRODUCT SPOTLIGHT: AQUABLOC 3D

Quality fuel filtration is key to reducing vehicle emissions and pollution. Removing dirt and moisture helps vehicles to run more efficiently, use less fuel and lower operating costs.

Parker's Aquabloc™ 3D coalescing media provides three-stage filtration, for outstanding fuel purity. The system uses three distinct elements to remove impurities, then grow large water droplets from emulsified water in the fuel. Finally, a woven mesh barrier prevents any droplets from exiting the filter and re-entering the fuel stream.

Aquabloc™ 3D is suitable for new vehicles or retrofitting to existing fleets. The range offers considerably improved water separation in fuels which contain biodiesels.





Passenger coach and bus technologies

CNG/LNG fuel supply fittings and hoses	Electronic controllers
E-traction	Fuel regulation and filtration
Instrument clusters and displays	Seat suspension

Buses are key to global transportation infrastructure. Shuttles, urban transport and cross-country coaches support healthcare, work, educational and social opportunities. They also help maintain quality of life in communities.

Parker components and systems meet the requirements of all types of modern buses and coaches. The comprehensive range covers everything from automation sensors and cameras to fuel supply, seat suspension and kneeling systems. Our practical, expert solutions are easy to operate and deliver excellent performance.

Vehicle manufacturers have explored a range of options to increase efficiency and support emissions reductions targets. For example, replacing hydraulic variable displacement pumps and compressor drives with electrically-driven devices enables internal combustion engine downsizing and helps reduce emissions.

Parker designs and manufactures a wide range of hybrid and electric vehicle drivetrain motors with maximum power density, high efficiency and broad scalability. Capabilities include motor-inverters, battery charging and management systems and ancillary motors, generators and drives.

We also provide compressed natural gas (CNG) and liquefied natural gas (LNG) products for bus and coach engineers – helping partners to substantially reduce CO2 emissions and make significant financial savings.

The highest quality materials. Extensive field-tested and industry-approved products. In-depth climate tests, with products designed for harsh conditions. These reasons, among others, are why you'll find Parker's bus and coach solutions at work in cities and on roads across the globe.

PRODUCT SPOTLIGHT:
FM80 FUEL REGULATION MODULE

The FM80 achieves advanced fuel handling performance for CNG vehicles. It ensures accurate, stable outlet pressure of natural gas over a large range of inlet pressures and flow rates.

By providing a low inlet cut-off for higher fuel flows, the FM80 helps improve useable range. An integrated piston-style regulator, shut-off valve and capacity filter can warm the gas, remove particulates and change gas pressure – protecting the engine.

Designed for reliability in extreme weather, the FM80 can help extend oil change intervals, reduce leak points and deliver enhanced driveability in the toughest conditions.



Bus and coach portfolio

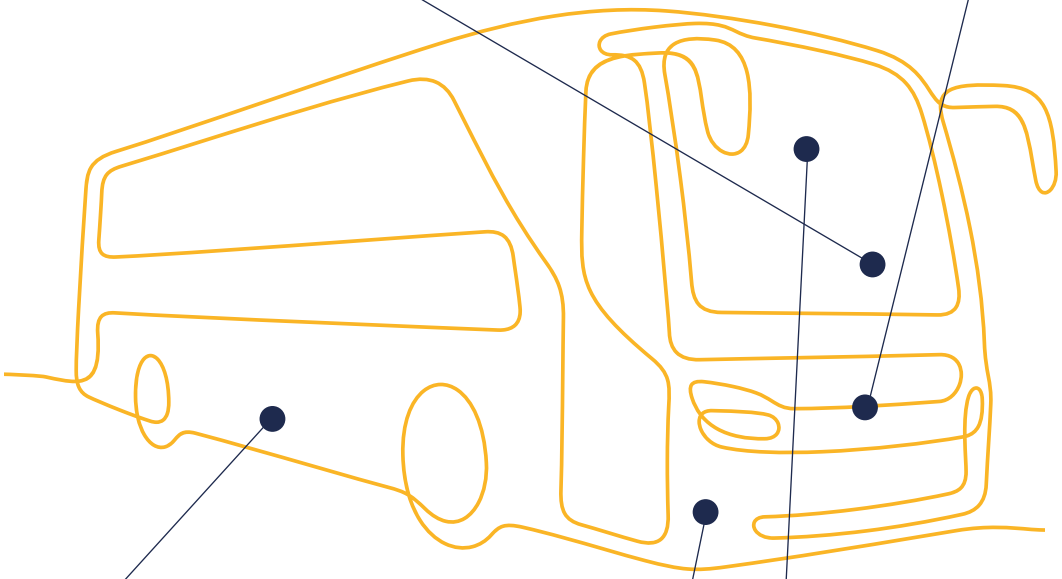
Selected products from Parker's extensive bus and coach portfolio are shown below.

HYDRAULIC SYSTEM

- Piston fan drive system
- Hydraulic pumps

ENGINE

- Crankcase ventilation
- Fuel, air and oil filtration
- Instrumentation valves for alternative fuels
- SCR heated hose and solenoid valves
- Hydraulic solenoid cartridge valves (engine brake and oil temperature control)
- Hydrogen hose and connectors



CHASSIS

- CNG fuel regulation module, valves and regulators
- Hoses and connectors for CNG/LNG systems
- Hydraulic pipe, hose and connectors
- Automation sensors and cameras
- Pneumatic tube and connectors (including air brake and suspension)
- Air suspension control systems
- Pneumatic solenoid manifolds

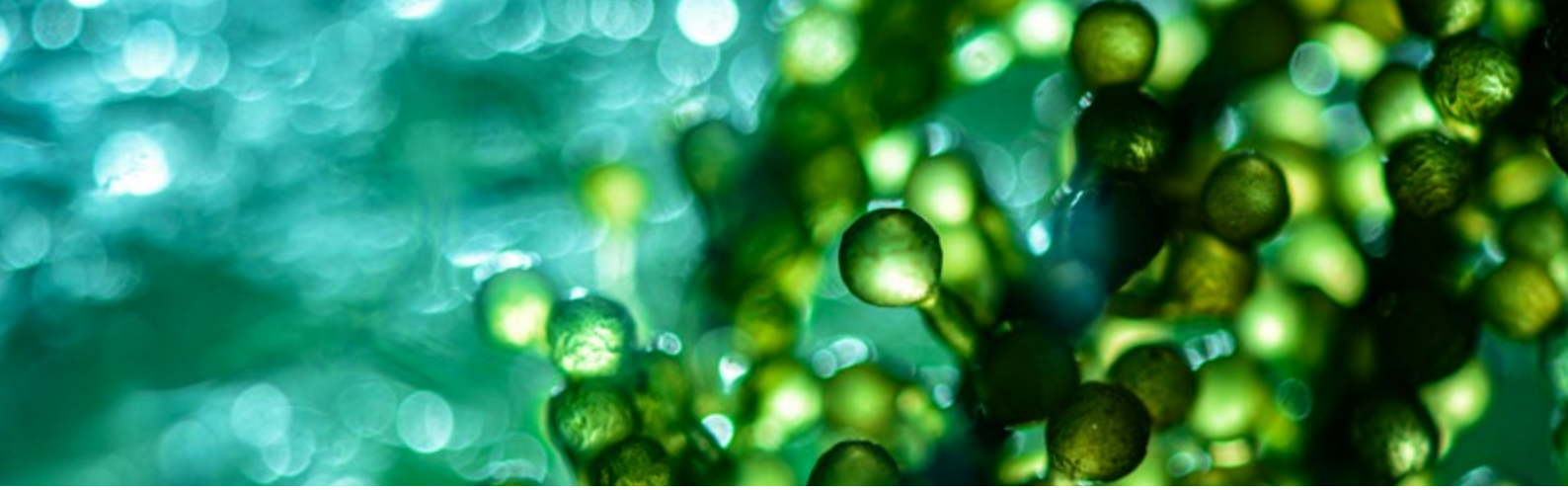
CABIN

- Instrument clusters and displays
- Electronic controllers
- Seat suspension
- Door control systems

DRIVETRAIN

- E-traction (motors/inverters)
- E-steering (motors/pumps/inverters)

Visit our industry pages →



Alternative fuels and electrification

| CNG fuel regulation and filtration | Electric motor-inverter systems |
| LPG hoses, valves and fittings | Fittings for CNG/LNG applications |
| Heated hoses for SCR and hydrogen fuel cell |

Transportation advances are often viewed in the context of wider society concerns around pollution and sustainability. This has been key in driving adoption of alternative fuels and electrification in the bus and truck market.

Parker's electrification specialists work closely with customers to develop solutions for truck and bus applications around the world. Our capabilities include battery-fed electric motor systems, hybrid-electric drivetrains and vehicle traction systems.

Natural gas (CNG/LNG) is another popular choice, with obvious benefits such as long driving range, existing delivery structure and established regulatory framework. Parker's complete line of natural gas products spans on-vehicle and refuelling applications - all tested, certified and listed to stringent industry requirements.

Hydrogen fuel cell technology is also becoming an attractive option for bus and truck customers, as infrastructure expands. Hydrogen's high useable output and relatively cost-effective drive range align well with fixed routes and hub-based journeys. Parker's capabilities include products already developed for alternative markets that are compatible for use with hydrogen, and have potential to be adapted or recertified for use with fuel cell technology.

HEATED HOSE FOR SCR SYSTEMS

Diesel exhaust fluid (DEF) is typically injected into the Selective Catalytic Reduction system of many modern diesel vehicles. This converts NOx into nitrogen and water vapour, helping to lower emissions.

In harsh conditions DEF can freeze, which affects vehicle starting. Parker's heated hose technology is designed to protect lines and avoid unnecessary downtime. Combined with our urea tank heating solenoid valves, it's a highly-effective total package for SCR systems.

Heated hoses are also compatible with hydrogen fuel cell systems, to avoid frozen vent lines and stop the by-product of water freezing. Similar heated products can be supplied as a 'heater wrap' and applied to existing hoses and pipework, to regulate temperature.





The impact of digitalization

| Automation sensors and cameras | IQAN controllers |
| ProDisplay HMI | Parker Tracking System |

Asset management. Machine vision. Maintenance alerts. Parker technologies offer significant development and diagnostic potential, to help truck and bus engineers increase productivity and efficiency.

Data plays a mission-critical part in today's business strategy. From identifying vehicle location, to tracking collections and net weight – there's scope to collect lots of information based on machine evidence. The insights gained can help your business work smarter, faster and increase profitability; you can also choose data collection, export and read options to align with your local systems.

Digitalization technologies can add value to customer operations in many ways, such as:

- Door cameras that count passenger entry and exit – while designed for safety, these can also help log route efficiency and see how well a vehicle is being utilised. This intelligence can drive operational change, review charging policies and more
- Human detection - now popular for applications with limited operator line of sight, such as refuse vehicles. Neural networks and machine learning make it possible to identify elements that affect detection capabilities and conditions
- Material handling – where vehicles approaching a specified location can read a label and check the operator is collecting the right goods. This approach saves valuable time and can reinforce robust safety procedures.

When you need to get the most from your vehicle data, Parker-built tools can help you record and analyse vital information.

PRODUCT SPOTLIGHT:
PRODISPLAY 12 HMI



Engineering success depends on safety, functionality and user-friendly operation. Parker's ProDisplay HMI integrates multiple functions in a single display, replacing the need for lots of switches, buttons and interfaces.

With ProDisplay you can reduce interface size and footprint, improving the cabin environment. You can prioritise tools to meet operator needs (for example, set alarm systems to override music or hands-free phones). And fewer HMIs = lower costs.

Parker's app-based system means that engineers without software development skills can get things done more quickly. It's easy to build items in isolation, then integrate test elements to make sure everything works together.



Parker - your trusted engineering partner

| 100+ years supporting engineers | 1,100 markets | 8,000+ patents |
| 290 manufacturing plants | Sales and service in 50 countries |
| The global leader in motion and control technologies |

For more than 100 years, Parker solutions have supported advances in manufacturing, space exploration and almost every human-made machine that moves. From driving a truck to flying in a plane, talking on a mobile phone or drinking clean water… our technologies make a positive impact on almost every aspect of everyday life.

We solve customers' complex engineering challenges, to help them make the world a better place. This includes supporting people to achieve emissions targets, reduce use of power and improve efficiency.

It's our mission to support partners in finding the best solutions to their customers' problems. By designing robust systems, manufacturing quality products and supporting each other, we can help improve the lives of people everywhere.

Parker brings expertise in a diverse range of applications, including:

- Hydraulics
- Pneumatics
- Electromechanical
- Process control
- Climate control
- Filtration
- Fluid and gas handling
- Engineered materials.

We're here to enable engineering breakthroughs, that lead to a better tomorrow. When you need a trusted partner for your transportation journey, you can count on our support.

Explore Parker's transportation pages →

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