Robust Technologies.
From a One-Stop Shop.

Whether machinery or compressors for road construction, agriculture, high-level or underground civil engineering, ports, mining, or logistics – wherever they are used in off-highway or industrial applications, technology is needed that functions optimally even under extreme conditions.

We offer extensive knowledge of and expertise in the compounding of elastomers with platics, textiles, steel, aluminum, and many other materials. This engineering expertise enables us to define and manufacture our products to a high degree of precision in line with the necessary temperature, pressure, and material requirements. The result? Highly reliable lines and line systems for transporting liquids and gases and transferring forces.

For all media flows we offer solutions that are every bit as robust as they are innovative. This is a particular advantage for you, because we are your one-stop shop for whatever you need.

Fluid Systems – the connecting force

You set the challenge – we provide the solution

As a vehicle manufacturer and mechanical engineer, your technology is always on the move. This is why you need a flexible partner, capable of responding perfectly to your changing requirements – with products individually tailored to meet your specific needs. Mobile Fluid Systems has established itself as a development partner to leading industrial vehicle manufacturers. Our goal is to support your company’s success by providing the perfect systems.

Extensive engineering expertise, state-of-the-art design software, and multistage test procedures are the basis for rapid development times and a high level of product safety. Our worldwide production capacity is also designed for flexibility – from made-to-order to mass production, we guarantee a high number of variants with flexible batch sizes.

Content

For off-highway and industrial applications, we offer innovative solutions for the:
- Chassis
- Engine
- Transmission
- Cab
- Exhaust system
Many Solutions, One Contact Point

We combine materials expertise with engineering capability. The result? Intelligent solutions for all application areas in off-highway and industrial vehicles.
Chassis: Perceptible Engineering

Hydraulics, power steering, brakes - your one-stop shop for all chassis solutions.

For hydraulic and electrohydraulic power steering systems, we develop customized solutions for high pressure and temperature requirements. All applications are space-saving, optimized in terms of noise and vibrations, and have been approved by many renowned off-highway customers.

For brakes, we offer media-resistant innovations with optimized fatigue behavior that meet all important standards (DIN, SAE). To make these components easier to install, we have equipped them with practical plug connections.

We also have a wide range of hoses and pipes and, thanks to many years of experience in the field of high pressure hydraulics, we can ensure securely crimped connections. These developments exceed industrial standards for temperature, pressure, and media compatibility.

Our hydraulic gearshift mechanism with quick connectors and our high-pressure, intake and return lines for SAE oils in hydrostatic fan drives ensure maximum ease of installation. What is more, they also allow for the integration of fire protection and are certified by various classification organizations including Germanischer Lloyd.

Oil line

Hydraulic hose line
Engine: Extreme Requirements, Robust Solutions

Whether fuel, water, gas, air, or oil – we guarantee precise media transport even under the toughest conditions.

- We manufacture all types of engine air supply line systems as well as pneumatic pressure supply line systems for compressor control.
- For engine cooling, we develop components and complex modules that meet the most stringent requirements regarding flexibility and pressure and temperature resistance.
- When it comes to the fuel supply system, we offer customized and low-permeation complete solutions for gasoline, diesel, hydrogen, biodiesel, and liquid gas (LPG/CNG).
- We manufacture charge-air lines and technical solutions for turbocharger lubrication and cooling that set new standards in temperature and pressure resistance.

Engine performance of modern off-highway and industrial vehicles rests on the reliable and targeted use of a wide range of media, such as fuel, water, gas, air, and oil. As your development partner, we offer a range of groundbreaking solutions.
We use an innovative overall concept to improve the efficiency of air-conditioning systems. The refrigerant is cooled via an integrated heat exchange unit using a cooling system based on the counter-low principle. Not only does this enable us to use smaller compressors, in turn it also delivers considerable energy savings.

Our air conditioning lines offer narrow bending radii, highly effective barrier layers, and the perfect combination of hoses, pipes, and fittings. Our complete systems therefore ensure extremely low permeation of volatile substances and are suitable for all types of refrigerant.
Exhaust gas management is facing new challenges. The more stringent requirements for CO₂ reduction require higher boost pressures, which result in higher temperatures in the turbocharger and throttle valve, and during exhaust gas recirculation.

Thanks to our new high-performance materials, we offer solutions that satisfy the toughest requirements even in challenging installation situations. For example, we manufacture lines for diesel particulate filters and for boost pressure control (wastegate), which exhibit impressive temperature resistance even during continuous operation.

Our lines for the innovative “Selective Catalytic Reduction” (SCR) technology also provide “in-built” reliability. Our electrically heated or coolant-heated systems, which supply urea to the exhaust pipeline, are designed for an extremely large temperature range.

Exhaust Gas System:
Reliability as Standard

We turn powerful machines into clean powerhouses.

Tried-and-Tested
Quality

As part of the global player that is Continental, we give you greater project security.
Continental Off-Highway
Efficiency, Comfort, and Vehicle Safety

**Interior & cab**
- Screens and touchscreens
- Measuring instruments
- Innovative surface materials
- Pedals
- Driver cockpits
- Telematics/Connectivity, diagnostics and servicing

**Powertrain**
- Instrumentation
- Electronic control units for engines, transmission, and exhaust gas aftertreatment
- Sensors: temperature, pressure, fluid level, speed
- Exhaust gas aftertreatment: sensors and injectors
- Drive belts, V-belts, multi V-belts, and timing belts
- Hoses and hose lines
- Actuators

**Chassis & Body**
- Measuring instruments
- Measuring instruments
- Innovative surface materials
- Pedals
- Driver cockpits
- Telematics/Connectivity, diagnostics and servicing

**Tires & Tracks**
- Hose lines for all technical media
- Special belts for mobile machinery
- Rubber crawler tracks
- Air springs and rubber-metal elements for suspension and vibration insulation
- Forklift tires
- Multi-purpose tires
- ECU: gateways, power switches, implement controllers
- Cameras, radar systems, and 360° view
- EM tires
- Truck tires
- Inertial sensors
- Access systems
- Car and van tires
- Tire-pressure monitoring systems

www.continental-offhighway.com
ContiTech is part of the international technology corporation Continental and enjoys a global reputation as a materials specialist and development partner with innovative products and intelligent systems that make use of rubber, plastic and combinations of materials such as metals, fabric, textiles, glass, and electronic components. ContiTech operates in almost all sectors of industry. Drawing on our extensive development and materials expertise, we combine our products and systems with customized services. We partner with our customers to create added value and help make the social trends of tomorrow into a reality today.