



*Airline*

**Products and Solutions to Power Your Ideas**

# Fluid Power Solutions for the Shale Gas Industry

ISO 9001:2015 Certified

## Products & Services for:

- Fracking Trucks
- Drilling Rigs
- Winch Equipment/Tension Trucks
- Mixer and Wire Feed Trucks
- Sand Delivery Vehicles
- Compression Stations
- Water Filtration

Call 1-800-999-7378

[www.airlinehyd.com](http://www.airlinehyd.com)







# Airline

100% Employee Owned

**We know our business... we own it!**

## Your single source for fluid power components & systems

Airline Hydraulics Corporation is a leading regional distributor of hydraulics, pneumatics and custom engineered technology solutions. We represent Bosch Rexroth, HYDAC, Parker Fluid Connectors and other manufacturers of high-performance components which are used in the natural gas industry. We can supply products that meet explosion-proof and intrinsically-safe industry requirements, ATEX standards and NEMA ratings. We have designed and built many systems for drilling and fracking applications and have a dedicated service group to support the Marcellus Shale gas industry in Pennsylvania and neighboring states.

Airline is ISO 9001:2015 certified, providing quality products, engineering, manufacturing, winch certification and repair services. Whether your application requires nitrogen fracturing, cementing, ramping, blending or well servicing, we have the parts and in-house expertise to help you complete the job safely and efficiently.

**Motor Starters**



**HMIs**



**Broadband Routers**



**Ball Valves  
Needle Valves**



**In-Tank  
Accessories**



**Diesel Filters**



**Filtration**



**Coolers**



**Valving**



**Motors**



**Pumps**



**Lubrication**



**Transducers**



**Clamps &  
Accessories**



**Hose & Fittings**



**800-999-7378**

# HYDRAULIC PUMPS & MOTORS

**Rexroth**  
**Bosch Group**

Solutions Partner  
Authorized Distributor

## Bosch Rexroth Hydraulic Pumps & Motors

Airline is your regional authorized Bosch Rexroth Solutions Partner, offering a complete range of highly efficient pumps and motors using Rexroth's advanced hydraulic and gear technologies. Airline has the expertise to recommend the best solution for each unique requirement and can design and build customized system solutions. Below is a partial list of Bosch Rexroth's offering:

- Axial piston pumps and motors in bent axis design or swashplate design for medium and high-pressure ranges. Available in fixed or variable displacement.
- External gear pumps and motors.
- Radial piston motors.
- Rineer high-torque vane motors.
- Compact power modules.
- Solutions to help you meet TIER 4 compliance.
- Need it fast? Look at GoTo Program components.



*With over 50 displacements combined with a variety of optional features, Rexroth's Rineer motor is one of the most versatile fan drive motors in the world.*



# MOBILE VALVES

## Bosch Rexroth Mobile Controls

With both standard mobile hydraulics control valves and customized solutions, Airline provides Rexroth components such as control blocks, mobile valves, central hydraulic and hitch control and more. Shown below is the M4 load-sensing control block, used in the most diverse applications due to its modular and compact construction.



## Casappa Pumps and Motors

Casappa offers a wide range of gear and piston pumps and motors, including fixed or variable displacement axial piston pumps and motors. Many functions, such as valves and controls, are directly incorporated into the products in order to optimize space and costs for the system.



**CASAPPA**  
FLUID POWER DESIGN

## Geartek Pumps & Motors

**GEARTEK**

Geartek manufactures cast iron bodied gear pumps and motors. Geartek units are designed and manufactured to combine the reliability and economical features of external gear design with modern engineering and materials to produce true pressure ratings up to 4,000 psi.



 **walvoil** Fluid Power

## Walvoil Hydraulic Control Systems

Airline is a full-line distributor of Walvoil spool valves, proportional valves, load sensing valves, directional valves, monoblock valves, diverter valves, sectional valves, hydraulic pilot controls and remote controls.



## Kawasaki/Staffa Radial Piston Motors

Staffa motors are the choice of industry leaders to directly propel, drive, swing, or rotate heavy loads and inertias at low speeds. They are used on winch and steering mechanism applications, offering consistent, controlled acceleration of loads and smooth, steady, low-speed operation.

**Staffa**



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# FILTRATION



## HYDAC Filtration

Airline Hydraulics is an authorized distributor for HYDAC, the industry leader in hydraulic filtration products. HYDAC offers an extensive line of hydraulic filters including high, medium and low pressure filters for a range of applications including inline, return line, in-tank, duplex, spin-on, suction and manifold-mounted, as well as a wide range of filter elements. HYDAC also carries filtration systems to treat water, process fluids and diesel fuel. Airline can help you select the proper filter for your application and can customize filtration solutions to meet your specific needs.



## HYDAC Water Treatment Filtration System

The AutoFilt® RF3 (shown left) is an automatic self-cleaning water treatment filtration system designed for continuous maintenance-free filtration for all major manufacturing and processing industries. It removes solid contamination from low viscosity fluids such as water and fracking fluids. Its rugged construction and self-cleaning feature provide increased machinery reliability, resulting in reduced operating, labor and maintenance costs.

## HYDAC Filter Elements

HYDAC filter elements safeguard the performance and service life of essential hydraulic components. Choose from Betamicon®, Aquamicon®, ECOmicon®, combination elements, and their new STAT-FREE filter element (shown right). It is the only electrostatic discharge element on the market to offer system protection from costly system component damage due to destructive arcing forces.



## HYDAC Diesel Filters

HYDAC diesel fuel filters are designed to remove water from diesel fuel. The HYDAC HDP HT Diesel Filter Assembly (shown right) is packaged with a refueling pump, resulting in a compact unit with a DC drive for non-stationary refueling. It is installed permanently to the vehicle and facilitates the quick and easy transfer of diesel fuel.



## Magnum Magnetic Filtration

The Magnum PumpMate Magnetic Filter is designed primarily to protect hydraulic pumps. This magnetic suction side device replaces traditional strainers with Magnum's high-efficiency, patented core technology inside the system's hydraulic return tank or reservoir.

800-999-7378



## Bosch Rexroth Filtration

Rexroth now offers a complete portfolio consisting of filters and filter elements with the latest technology for the highest performance. For each application, Rexroth has the right solution for the filtration of hydraulic fluids.



# FLUID CONDITION MONITORING & DIAGNOSTICS

Maintain the appropriate cleanliness level in your hydraulic or lubrication system by implementing a comprehensive filtration program to regularly monitor fluid contamination.

Airline carries the products to do just that! They include:



## HYDAC Dewatering & Filtration Units

The FAMH provides water & solid removal for the conditioning of lubrication and hydraulic fluids.



## HYDAC Contamination Sensors

The CS1000 contamination sensor is a reliable measuring instrument that is permanently mounted on your industrial equipment for the continuous measurement of solid contamination of fluids.

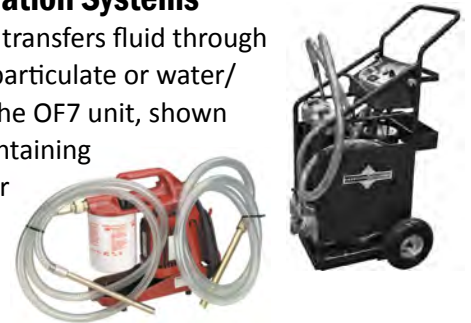


## HYDAC AquaSensors

The AS1000 is a transducer that outputs two 4-20mA signals correlating to the saturation level (0 to 100%) and temperature (-25° to 120° C).

## HYDAC Offline Filtration Systems

The OFS, shown right, transfers fluid through two filters for staged particulate or water/particulate removal. The OF7 unit, shown below, is ideal for maintaining off-highway vehicles or industrial machinery.



## HYDAC Data Recorders

The HMG3000 data recorder is a portable unit for measuring and data capturing tasks for the maintenance, servicing and troubleshooting of hydraulic & pneumatic systems.



## HYDAC Fluid Control Units

The FCU1000 is a portable service unit for measurement of solid particle contamination.



## Bosch Rexroth Oil Treatment & Measurement Technology

Rexroth now provides mobile or stationary oil purification systems for the removal of water, solid contaminants, and air/gases; mobile or stationary filter systems; and measuring instruments that are used for detecting water or determining the contamination level in hydraulic and lubricating oils.

Whether it's an upgrade of your current filtration system, a one-time system filtration or flush performed by our top-notch Service & Repair Team, or the implementation of an ongoing fluid cleanliness program, Airline will recommend and deliver the best option to maximize the service life of your system or component.

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# COOLERS & ACCUMULATORS



HYDAC's latest coolers feature a compact footprint and are targeted toward mobile equipment, such as concrete trucks and mobile cranes, and can be used for transmission cooling.



## ▲ Air Cooled Oil Coolers

HYDAC OKC Series Coolers use a combination of high-performance cooling elements and high-capacity, compact, AC electric-powered fans to give trouble-free operation in hydraulic applications. The compact design allows the coolers to fit most equipment and provides the highest cooling performance in heat dissipation while minimizing space requirements.



## ◀ Brazed Plate Heat Exchanger

Brazed plate heat exchangers are comprised of a number of molded stainless steel plates which are vacuum-brazed with copper or nickel. The special molding of the plates ensures a turbulent flow which is necessary for an optimum heat transfer. This turbulence creates a self-cleaning effect because deposits on the surface are reduced by the high level of wall friction.

## Accumulators ▶

HYDAC accumulators have been successfully applied to mobile applications in energy storage, maintaining pressure and leakage compensation. Choose from bladder, piston and diaphragm types. With pressure ratings up to 10,000 psi, the welded design combines compact size, performance, and low weight for use in your mobile applications. Internal and/or external protective coatings are available as well as stainless steel models.



## Thermal Transfer Heat Exchangers

- Brazed aluminum construction for optimum performance.
- Provides the best heat transfer per given envelope size while minimizing pressure drop.
- Air-side fin design minimizes fouling and static pressure ensuring long-term, reliable performance.
- Welded fittings/ports and manifolds ensure structural integrity.
- Standard SAE ports provide leak-free installations - NPT and BSPP ports are available.
- Maximum operating pressure of 300 psi and maximum operating temperature of 250°F.
- Customized units are available to meet your specific performance requirements.
- Additional capabilities for radiators, charge-air-coolers, condensers, and multi-circuit units to satisfy your complete cooling module needs.

800-999-7378

# WINCHES & PUMP DRIVES

## PACCAR Winches & Gear Drives

The PACCAR Winch Division, which incorporates Braden, Carco and Gearmatic, has the winch or gear drive to meet your most demanding specifications. PACCAR's line of planetary and worm gear winches and drives include constant-tension systems ranging from 4,000 lbs to 150,000 lbs of line pull. Their products offer quality and safety, backed by PACCAR Winch Division's renowned reputation in the industry.

## BRADEN



### Braden Air Winches with Drum Guard and Band-Brake

Utilizing the field-proven components of the PD Series winch family, the Braden Air Series offers increased performance, superior load control and industry proven reliability.



Airline also offers products from these PACCAR brands:

**Gearmatic**®

**CARCO**®

**We also offer  
winch certification  
and repair!**

## Tulsa Winch Group Winches & Gear Drives

Tulsa Winch Group offers a full complement of gearing products for large oilfield trucks, heavy haul tractor packages, digger derricks, cranes and aerial work platforms for the energy and infrastructure markets. Tulsa's planetary winches are designed with the industry's latest data-capturing technology to communicate real-time information during equipment operation—so operators work safer, smarter, and more efficiently.

## PullMASTER®

### PullMaster Hydraulic Planetary Winches

Pullmaster's H30 is a high performance, high efficiency planetary winch with a rapid reverse feature that provides for reverse or lowering speeds 4.67 times faster than forward or hoisting line speeds. All moving parts of the model H30 are totally enclosed and run in an oil bath, assuring long, trouble-free service with a minimum requirement for maintenance.



Airline also offers products from these  
Tulsa Winch Group brands:



**LANTEC**



## DURST



### Durst Pump Drives

Durst pump drives run cooler, last longer and can be quickly and easily serviced. Our patented pump pad promotes the constant flow of oil through the bearing and provides for wet spline operation, even at startup. All Durst pump drives incorporate class 10 spur gears that run on heavy-duty ball bearings. They also feature an internal spline, which, with a spline adaptor, are compatible with any SAE pump shaft and offer quieter operation.

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# AFTERMARKET PARTS

We now offer ready-to-ship used, rebuilt, reconditioned and new parts for all makes and models of earthmoving equipment.



## Attachments

- Booms
- Buckets
- Fork Attachments
- Blades
- Cabs
- Grapples
- Truck Boxes
- Rippers
- ROPS Canopies
- Sheet Metal

## Hydraulic Excavators

- Boom & Stick Accessories
- Control Valves
- Engine Components
- Dyno-tested Engines
- Final Drives
- Hydraulic Cylinders
- Oil Coolers
- Hydraulic Pumps
- Radiators
- Turntable Bearings
- Swing Device Assemblies
- Swing & Travel Motors

## Crawler Tractors

- Equalizer Bars
- Engine Components
- Dyno-tested Engines
- Hydraulic Cylinders
- Final Drives
- Main Hydraulic Pumps
- Oil Coolers
- Radiator Assemblies
- Steering Clutches & Brakes
- Transmissions
- Torque Converters
- All Undercarriage Parts

## Articulated Trucks

- Axle Shafts & Housings
- Brake Groups
- Differentials
- Engine Components
- Dyno-tested Engines
- Hoist & Steering Cylinders
- Planetaries
- Radiator Assemblies
- Transmissions
- Torque Converters
- Wheel Assemblies
- Oscillating Hitch

## Wheel Loaders

- Axle Shafts & Housing
- Brake Calipers
- Control Valves
- Differentials
- Dyno-tested Engines
- Engine Components
- Fenders
- Hydraulic Tanks
- Hydraulic Cylinders
- Main Hydraulic Pumps
- Bucket Control Linkage
- Oil Coolers
- Planetaries
- Transmissions
- Torque Converters
- Wheel Assemblies

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# HOSE, CONNECTORS & ACCESSORIES



## Quick Couplings

- Hydraulic Quick Couplings
- Pneumatic Quick Couplings
- Thermoplastic Couplings
- Live Swivels
- Check Valves
- Diagnostic Products

## Brass

- Fittings
- Valves

## Tube Fittings

- Industrial Tube Fittings
- Adapters
- Equipment

## Hose Products

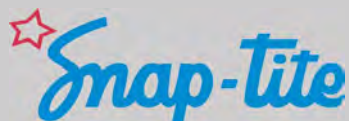
- Low, Medium & High-Pressure Hose
- Fittings
- Hose Assemblies
- Custom Kits
- Crimping Equipment

## Parflex

- Thermoplastic Hose
- Tubing
- Fittings
- Polyflex

## Industrial Hose

- Rubber Hose
- Plastic Hose



## Snap-tite Quick Disconnects

Snap-tite quick disconnects offers full-flow characteristics, can handle high pressure or gravity flow systems and contain minimal seals for greater reliability. In addition to hydraulic applications, the 29 Series quick disconnect is the ideal choice where minimal spillage or air inclusion, safety, cleanliness or precision are prime requisites.



## HYDAC Accessories

HYDAC manufactures highly-engineered high-pressure ball valves which guarantee safe and reliable operation. Additional components for completing hydraulic systems include: reservoir accessories, DIN clamps, fluid level gauges and sensors, bell housings, couplings and damping elements.



## NOSHOK Pressure Gauges

NoShok's full offering addresses vacuum and pressure from 10 in H2O through 145,000 psig, as well as differential pressure applications.



- Vibration, shock, pulsation and chemical resistant.
- Available in dial sizes of 1-1/2" to 6", bottom and back connected, with wetted parts in copper alloy or 316L stainless steel.



## TAIMI Swivel Components

Taimi Live Swivel Connectors are the most reliable ball-less swivels on the market and are ideal for challenging environments. They are designed to be leak resistant, endure heavy side load, high pull force and the high pressure and flow of modern equipment.

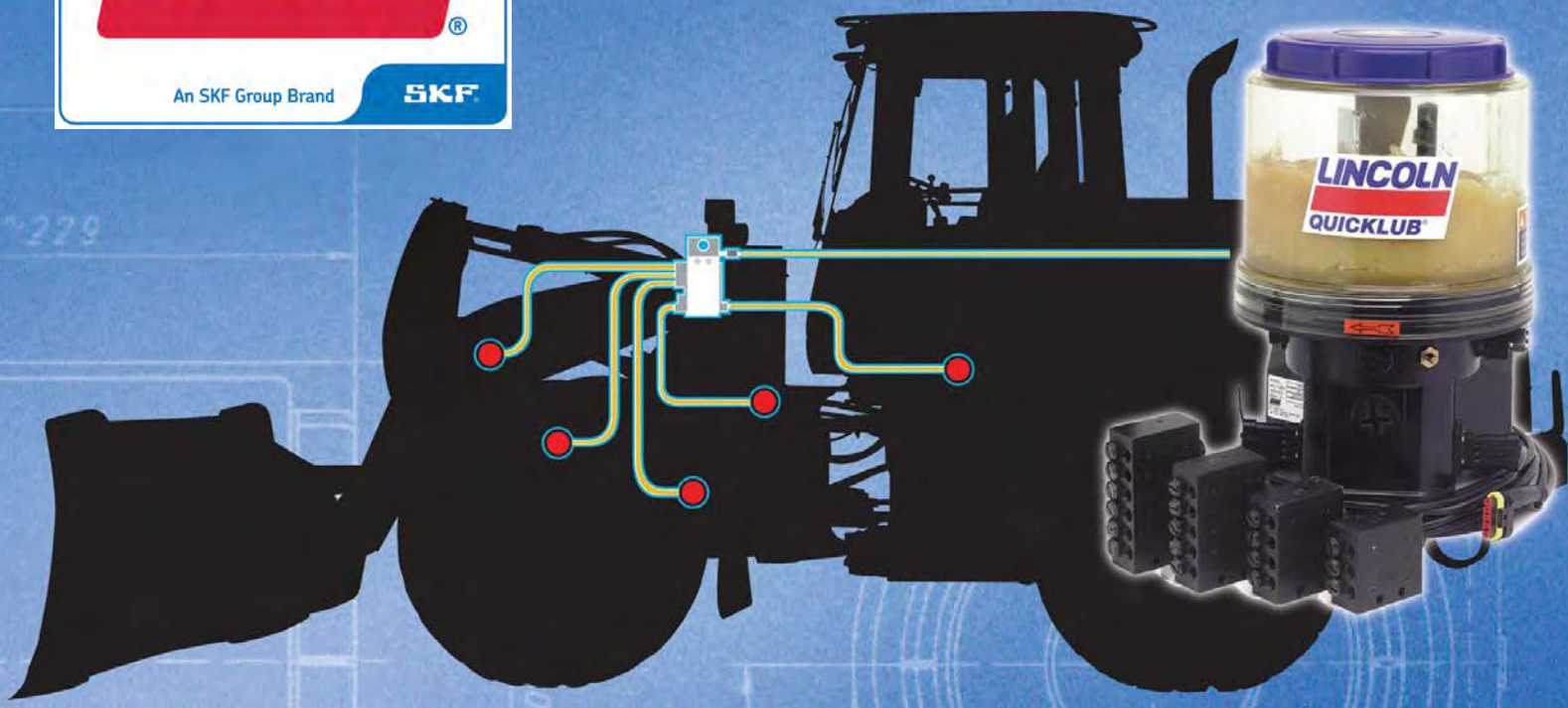
**Airline also carries hose, connectors and accessories from these manufacturers:**



[www.airlinehyd.com](http://www.airlinehyd.com)



# LUBRICATION



## Lincoln Quicklub® Automatic Lubrication System

Gain 30 to 45 minutes a day of increased productivity per machine by lubricating “on the fly” with Lincoln’s Quicklub® Automatic Lubrication System. This system automatically delivers measured amounts of grease to each pin and bushing at specific time intervals while the equipment is operating. This method reduces repairs by maintaining the proper lubrication film to reduce wear and purges, the pins and bushings of contamination.

## Benefits from automatic lubrication:

- Substantially reduce repairs by delivering frequent amounts of grease automatically.
- Cut grease consumption by using the appropriate amount required.
- Improve safety by eliminating the daily practice of climbing all over machinery to access lubrication points.
- Proper lubrication is always achieved, regardless of the environment or weather conditions.



## Lincoln Lubrication Reservoir and Pumps

- Visual indication of flow rate to each packing or cylinder lube point, measured in drops per stroke.
- One piece pump body eliminates leak points, enhancing pump reliability.
- Design is simple, rugged and provides ease of maintenance.
- Positive displacement ensures accurate delivery of oil at high pressures.
- All Viton® seals for use with synthetic or mineral-based oils.
- Body and plunger tolerance fit .00002 improves pump efficiency when discharging against high back pressure.

**Airline is a full-service Lincoln Industrial distributor and authorized repair facility.**

**800-999-7378**



# HIGH PRESSURE PUMPS & FITTINGS



Haskel International, Inc. is the world's leading manufacturer of high-pressure liquid pumps, gas boosters, air pressure amplifiers, and high-pressure systems and accessories. For over a half-century, Haskel has been recognized as a leader in high-pressure technology. Their products have a wide range of applications primarily focused on the pressurization, transfer, storage or control of liquids and gases under pressure.

As an authorized Haskel distributor, you can count on Airline for fast delivery of all Haskel components or customized turnkey systems, as well as high-pressure valves and fittings (for pressures up to 100,000 psi) from Haskel's subsidiary, BuTech. Airline is an authorized Haskel repair facility offering full service, installation and repair on all Haskel components and systems.



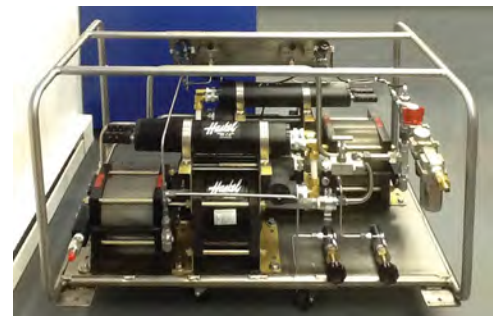
Gas Booster



Air Amplifier



Air Driven Liquid Pump



Haskel System built by Airline.

## Complete System Design Capabilities

Airline can build custom-designed portable or large-scale systems, including:

- Air & hydraulic-driven gas boosters
- Air-driven liquid pumps
- Air pressure amplifiers



## BuTech High Pressure Needle Valves

These valves are available in a variety of body styles designed for operation at temperatures ranging from -100° to +600°F (-73° - +315°C). Optional stem packings and/or extended stuffing boxes increase the range to -423° to +1200°F (-253° to +648°C).



# PNEUMATICS

## Bosch Rexroth Controlair® Directional Valves



Controlair® valves are a family of pneumatic pressure-regulating directional valves including versatile three and four-way pressure regulating valves or a combination of pressure regulating and non-regulating three-way valves. Hand, foot or mechanically operated, these valves control both pressure and flow of air. The H Controlair® pressure control valves are extremely popular on oil and gas drilling and service rigs.



**Airline also carries pneumatic products from these manufacturers:**



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# DRIVES & ELECTRONICS



ABB  
Motor Starter



## ABB Drives, Controls and Motor Starters

Airline is an authorized distributor of ABB Drives and Low Voltage Products, offering a complete range of industrial control products, motor control and protection devices, automation controls and components, terminal blocks, contactors, motor starters, softstarters, electronic and mechanical relays, power supplies, sensors, wireless devices, timers and control relays.



ABB  
Soft Starters



## WEG's W22 Three Phase Motor

- Maximum energy efficiency
- Extended lifetime
- Increased productivity
- Low cost of ownership



## HYDAC Pressure Transducer

HYDAC's Series HDA 4400 Pressure Transducer is designed to measure relative pressures in the high-pressure range. The evaluation electronics converts the measured pressure into a proportional analog signal. Used in mobile and industrial hydraulic and pneumatic applications, the electronic module is completely potted to protect against humidity, vibrations and shock, and is enclosed in a solid stainless steel housing.



## CERVIS Wireless Controls

CERVIS has a wide range of wireless controls for overhead crane, industrial, mobile equipment and underground mining applications. Their Smart wireless products utilize a direct-sequence spread spectrum (DSSS) RF protocol and programmable logic in the transmitter and base units.



## OEM Controllers

OEM core products include one, two and three-axis joystick controllers, ergonomically designed multi-grip handles, electronic valve driver boards, microprocessor based logic controllers and integrated panel systems.



**Airline also carries controls from these manufacturers:**



**800-999-7378**



# OPTO 22



## Opto 22 Monitor & Control Systems

Using only a modern web browser, Opto22's *groov* lets you quickly and securely build and deploy browser-based interfaces for automation, monitoring and control applications. These operator interfaces can then be viewed on almost any computer or mobile device regardless of its manufacturer or operating system.



## Meltric Plugs & Receptacles

Meltric Decontactor switch-rated plugs and receptacles combine the safety and functionality of a disconnect switch with the convenience of a plug and receptacle. Their exclusive design allows users to safely make and break connections under full load and provide significant protection in overload and short circuit conditions. Switch-ratings and short circuit ratings eliminate the need for expensive and space-consuming interlocks and auxiliary disconnects. Using Decontactor devices to connect motors and other equipment helps improve your bottom line by reducing equipment requirements, installation, and operating costs.



800-999-7378



## CalAmp Broadband Router



CalAmp wireless solutions address reliability and cost issues associated with oil and gas operations, accommodating a broad range of fixed and mobile wireless data needs and meeting today's complex regulatory and technical challenges. At stake is the ability to work without system interruptions, and avoid the significant costs associated with operational downtime. Typical applications include vehicle position monitoring (GPS), radio-to-radio pumping station monitoring and well pump head monitoring.

The Vanguard 3000 multicarrier cellular router enables wireless data connectivity over public networks at 3G speeds for both fixed and mobile applications. Features and functions of this router include:

- Multiple carriers on a single device.
- Auto redial for always-on connection.
- GRE tunneling, local IP, IPsec, VPN client & WAN gateways.
- Optional 16-channel GPS receiver for mobile applications.
- Optional WiFi client & access point.
- High-speed video capability via resident ethernet connection.
- Vibration resistant.

## Pro-face

### Pro-face NEMA 4x Rated HMIs

Pro-face GP-4000 Series uses the new GP-Pro EX v3 with extensive features, expanding functionality and connectivity for every HMI unit.

- Operators can easily monitor conditions and the operating environment in real time using 3D real parts.
- Reduces on-site power consumption in a variety of ways, including an on-board LED backlight in all models and a dimmer setting used to decrease and eventually stand-by the display after being idle for a set period of time.
- Simply touch the alarm message to check the relevant data in chronological sequence.
- GP-Viewer EX software provides various remote monitoring functions, such as checking the screen of the GP located on a production site from a remote office.
- NEMA 4x rated; ATEX and CE certified.
- Hazardous Location Rating – Class I, Div. 2, Groups A,B,C & D.



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**Do you need hydraulic power for your remote application?**

# DIESEL-DRIVEN HYDRAULIC POWER PACKS

For remote areas where electric power is unavailable, diesel-powered electric motors can be used on a drilling site for pump skids and many other applications. Airline has years of experience designing and building diesel-driven hydraulic power packs, with or without integrated controls to meet any need.



▲ Airline can create custom diesel-driven hydraulic power drives to suit any application. The image above shows one of two 4'W x 4'D x 6'H power units built by Airline for this system, each with a diesel engine, reservoir, manifold assembly, hydraulic generator and electrical panel. All components were encapsulated in a steel protective guarding enclosure with a door for operation and maintenance access.



## ◀ Triple Winch Tower Skid

Full turnkey solution designed and integrated by Airline Hydraulics including:

- Hydraulics
- Operator console
- Electrical system
- Mechanical elements

### DISTRIBUTED COMPONENTS:

- Three high-performance winches
- Sophisticated hydraulic feedback control system
- Four hydraulic piston pumps
- Three hydraulic motors



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## Airline repairs hydraulic components from ALL major manufacturers.

### Major Lines Serviced:

- Rexroth
- Eaton
- Hydromatik
- Oilgear
- John Deere
- Bosch
- Kawasaki
- Staffa
- Caterpillar
- Racine
- Sundstrand
- Liebherr
- Parker
- Uchida
- Charlynn
- Danfoss
- Komatsu
- Hitachi
- Vickers
- Linde
- Dynapower
- Cessna
- Denison
- Mailhot
- Brueninghaus
- Permco

**Our goal is to provide you with the highest quality repair, quick and accurate turnaround times, and competitive pricing.**



Hydraulic cylinder reconditioning and service.

**800-999-7378**



# SERVICE & REPAIR

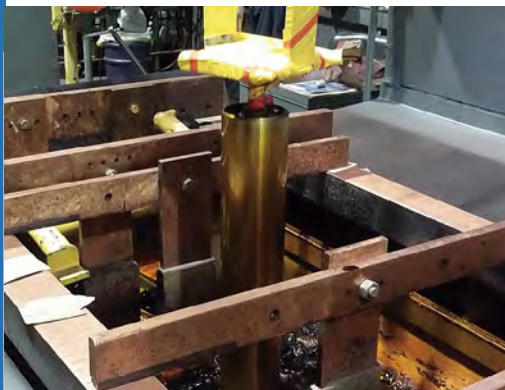
## Powerful Service...Powerful Capability

Today's complex hydraulic systems incorporate specialized controls for pumps, motors and valves. Proper servicing requires knowledgeable individuals with capable test equipment. Our machine shops are fully equipped and staffed by experienced, fully-trained professionals, including MIG/TIG certified welders. All processes are monitored for quality and workmanship. All tolerances are pre-checked before final assembly. The final operational test is performed at the component's rated pressure to ensure it meets or exceeds OEM specifications.

### Major components we test and repair:

- **Pumps and Motors:** Open and closed loop; fixed & variable displacement.
- **Cylinders:** Repair, reconditioning, design & manufacture of hydraulic cylinders for mobile, construction or industrial equipment.
- **Valves:** Pressure & directional control; proportional & servo.
- **Rotary Actuators:** Vane and rack & pinion.
- **Power Units and Control Systems:** All makes and models.

**Call us for field service, installation, start-up, troubleshooting, remanufacturing & refurbishing of hydraulic components & systems.**



Chrome plating of cylinder rods up to 20' feet in length and with bore sizes up to 20 inches.

## Hard Chrome Plating

Hard chromium plating can be applied as a surface finish coating (usually measured in thousandths of an inch) to hydraulic cylinder rods, rollers and piston rings for wear resistance, lubricity, oil retention and other wear resistance purposes.



# Airline Product Lines

Below is a comprehensive list of the product lines Airline carries. We have decades of experience helping our customers source the right products to fit their specific application needs. **Please note that certain product lines may not be available in all areas.**

ABB	Diplomatic Hydraulics	Lapp USA	Reading Technologies
Acme Electric	Durst	LDI Industries / Vescor	Renco
Adaptall	Dynamic Gauges	Lehigh Fluid Power	Rittal
Adsens	E-Drive	Lenze	Ross Controls
Air Starter Components	Edwards Signaling	Lexair	Roxtec
Alkon	Erico	LinkTech	RR USA
Allenair	Eskridge	Littelfuse	SAB
Anchor	Euchner	Logan Clutch	Schmersal
Apollo Ball Valves	Fairfield	Lutze	SKF / Lincoln Lubrication
Applied Motion Products	Fibox	Lynair	SMC
Baldor	Filnor	Magnaloy	Sola Hevi-Duty
Banner Engineering	Flexa Conduit	Magnum Filters	SSAC
Beijer	Flow Ezy Strainers	Mailhot Industries	Star Hydraulics
Bell Everman	Fulflo Valves	Maple Systems	STC
Bezares USA	GAM	Meltric	Super Swivels
Bijur / Delimon / Farval / LubeSite	Geartek	Mencom	Taimi
Bin Master	Gems	Mersen / Ferraz	TCI
Bosch Hydraulics	GE / Zenith	Milagon	The Precision Alliance
Bosch Rexroth Aluminum Framing	Grace Engineered Products	Milwaukee Cylinder	Thermal Transfer
Bosch Rexroth Conveyors	Greenco / Duramaster	Molex / Brad / Woodhead	Time Mark
Bosch Rexroth Drives & Controls	GSM	Motion Controls	Tompkins
Bosch Rexroth Hydraulics	Hammond Manufacturing	MTE Corporation	Total Protection Solutions
Bosch Rexroth Linear Motion	Hammond Power Solutions	MTS	Tri-Tronics
Bosch Rexroth Pneumatics	Hanna Cylinders	Murr	Turck
Braden / PACCAR	Hannay Reels	Nason	TWG / Pullmaster / DP Winch
Brennan Industries	Haskel	New Age Industries	TWG / Lantec / Tulsa Winch
Bucher / Command Controls	Heco Gear	Noshok	TWG / Gear Products
Bucher / Monarch	Hedland	NSi Tork	Twintec
Bussmann	Helac	OEM Controls	UHI / Diplomatic / UFI Filters
Butech	Hercules Sealing Products	Offpeak Technologies	Ultra Clean Technologies
Cablofil	High Country Tek	Omni Cable	Unitronics
Calamp	Honor Pumps	Omron	Vacuforce
Camco	H&R Construction Parts, Inc.	Opto22	Van-Air
Camozzi	HYDAC	Oriental Motor	Vogel
Carlo Gavazzi	Hydratech	PACCAR / Gearmatic	Voith Turbo
Casappa	Hydro Leduc	Panduit	Vynckier
Cervis	Hypercyl	Parker	Walther
CGI	Iboco	Patlite	Walvoil Fluid Power
Clippard	Icotek	Pepperl & Fuchs	WEG
Contrinex	IDEC	Permco	Werma
Cooper	Indusoft	Phoenix Contact	White Drive Products
Copley Controls	Ingersoll Rand	Pilz	Wiremold
Cylinders & Valves	Jokab	Pressure Tech	Wittenstein / Alpha Gear
Daman Manifolds	Kawasaki / Staffa	Pro-Face	Yates Industries
Delta	KNF	Power Standards Lab	Young Powertech
Delta	Kobelt	PSI Automation	ZF Marine / Mathers
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