

The logo features a stylized blue triangle with a white interior. The text "TRI STATE" is in a black serif font, and "Decatur" is in a bold blue sans-serif font.

TRI STATE
Decatur

The background is a blue field with white technical drawings of hydraulic and pneumatic components, including cylinders and valves.

**Proven
Hydraulic &
Pneumatic
Solutions**

Mill-Type Cylinders

Tie-Rod Cylinders

HAINZL

TECHNOLOGIE FÜR HÖCHSTE ANSPRÜCHE



- ▶ Hainzl has been developing and manufacturing hydraulic cylinders for over 40 years and have specialized in hydraulic cylinders for challenging applications in the most difficult of environmental conditions. Hainzl hydraulic cylinders are used globally in the most diverse of areas of application as we are the preferred supplier of leading machinery and plant manufactures (OEM) of steel mills, injection moulding machines, large presses, construction machines, etc.



- ▶ Glassport Cylinders has a reputation among major OEM and direct-user customers as being both durable and dependable in applications with the toughest requirements. We are proud of our cylinders and of our attention to detail; both are unsurpassed in the industry.

LYNAIR INC

The Cylinder Specialists



- ▶ Lynair has been manufacturing our rugged Mill-Type line of Cylinders for over forty years. Our heavy duty, welded flange design has been proven in Steel Mill & Aluminum Mill applications throughout the world.
- ▶ Lynair's Mill-Type cylinder series include: Series MTA Mill-Type Air, Series MTH, MHH, and M3H Mill-Type Hydraulic, Series TMA Torpedo Mill-Type Air, and TMH Torpedo Mill-Type Hydraulic.

LYNAIR INC

The Cylinder Specialists



- ▶ Lynair manufactures one of the most extensive lines of Tie Rod Cylinders in the industry. The rugged designs of Lynair Cylinders have been proven in some of the toughest industrial environments.
- ▶ Lynair manufactures five different NFPA interchangeable series of cylinders: Series A and Series AL Air Cylinders, Series LH and Series H Hydraulic Cylinders, and Series PW Water Cylinders. Additional Tie Rod Series include CS2 Automotive, F-800 Foundry, AJ Adjustable Stroke, AD Airdraulic, AB Air Booster, and HBA8 and HB4 Air-Hydraulic Boosters, HM ISO Metric Hydraulic & 'T' Air-Oil Tanks.



- ▶ Ortman Fluid Power manufactures a variety of hydraulic cylinders, pneumatic cylinders, valve actuators, air-oil intensifying boosters, and oil tanks to meet your linear actuation and pressure boosting needs.
- ▶ Custom design requirements needed for your actuator applications. Our design team will work with you, using solid model software, to meet your cylinder design requirements.



- ▶ As a manufacturer of hydraulic & pneumatic cylinders, we specialize in the industrial tie-rod design – both the standard NFPA Interchangeable tie-rod design and the custom design. We offer our hydraulic cylinders in the medium duty pressure range (pressure-rated per bore size) and the high pressure range.

Hydraulic Pumps

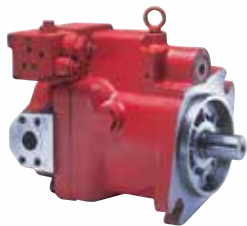
Hydraulic Valves



- ▶ Dynex manufactures hydraulic components and systems for use on mobile and industrial machinery. These pumps have been sold worldwide for over 40 years.
- ▶ Products include high-pressure piston pumps for demanding conditions, and electrohydraulic actuators for remote control.
- ▶ Dynex also builds standard hydraulic power units or specialized systems for demanding conditions including high pressure and special fluids.
- ▶ Pressure ranges to 15,000 PSI are available.
- ▶ Various Sizes, Flow Ratings and Control Options can be provided.



- ▶ Dynex manufactures a wide range of high-performance valves for industrial and mobile applications.
- ▶ Dynex hydraulic components and power units operate under demanding conditions including high pressure, contamination, dirty environments, special fluids, extreme temperature variations and long duty cycles.
- ▶ Pressure ranges of 5000 & 10,000 PSI.
- ▶ Dynex Directional Control Valves are among the most efficient, available with maximum flows to 165 GPM. Valves are available in standard NFPA mounting patterns from D03 to D08 w/ D05H and D08H high flow options.
- ▶ Stackable Sandwich Valves are available to mount on standard NFPA – D03, D05 & D05H patterns. Functions include: Flow Control, Check, Relief, Counterbalance and Pressure Reducing.
- ▶ Line Mounted Pressure Control Valves are available up to 15,000 PSI with a wide variety of functions.
- ▶ Flange-Connected Valves are available for high-flow applications.



- ▶ Kawasaki industrial Piston Pumps are the preferred choice where continuous, reliable and efficient operation of critical plant equipment is necessary.
- ▶ Standard Axial Piston Pumps are offered in various sizes with a wide range of control options.
- ▶ Maximum pressure ratings to 5800PSI.

Motors



- ▶ Medium-Duty to Heavy-Duty Motors & Low-Speed/High Torque Vane Motors. These motors are able to withstand pressure spikes & tough duty to 8000 psi (560 bar). Ideal for applications subject to pressure spikes, vibration, constant starting/stopping, and sudden direction reversals.

Staffa



- ▶ Fixed and Dual Displacement Radial Piston Motors used in Low Speed/ High Torque Applications.
- ▶ Staffa Motors are offered in various sizes, displacements, torques and pressure ratings.

Lubrication



- ▶ Alemite® is a leading supplier of lubrication and fluid handling equipment and systems.
- ▶ Alemite® offers a full line of lubrication products and systems designed to help improve productivity and profitability. We have the products and systems you need for any lubrication or fluid handling application.

Tools



- ▶ Enerpac® is a global market leader in high pressure hydraulic tools, controlled force products and solutions for precise positioning of heavy loads. Enerpac manufactures products, from the smallest hydraulic cylinder to complete computer-operated lifting and positioning systems, to provide our customers with innovative solutions that increase productivity, are cost effective, and make work safer and easier to perform.



- ▶ From inflatable jacks, torque wrenches, hydraulic pumps, cylinders and valves to clamping components and hydraulic accessories, Power Team brand high-force tools and equipment are used wherever strong, concentrated force is required on construction sites, in power plants, on rail lines, in shipyards, in mining operations and more.



- ▶ Chicago Pneumatic represents tools and compressors that are engineered for high performance. In addition to pioneering design, high-impact technology, and durability, Chicago Pneumatic means customer value.
- ▶ Power Tools, Industrial Production & Automotive Maintenance, Construction Equipment, Portable Compressors & Generators, Stationary Compressors.

Filters

Purolator®



- ▶ Purolator® is a creative engineering and manufacturing organization offering superior fluid mechanics and porous media technology to address specific needs for diverse worldwide markets.
- ▶ Custom and standard products are available for fluid filtration, fluidization, acoustic attenuation, separation, transpiration cooling as well as many other applications.
- ▶ Markets served include Aerospace, Industrial, Chemical Processing, Oil Well Completion, Power Generation, and others.

Seals



- ▶ Freudenberg Sealing Technologies Merkel is the globally operating specialist for innovative hydraulic sealing systems in heavy industry.
- ▶ Single-acting and double-acting seals made from fluoroplastic, polyurethane, or rubber materials.
- ▶ Merkel seals are tested for heavy hydraulic applications.

Water Hydraulics

BEHRINGER®



- ▶ Behringer® is a leading manufacturer and supplier of High-Performance Filtration Products. Our vast product offering makes us an extremely viable source for all contamination related problems and applications.
- ▶ Our products range from replacement filter elements for Hydraulic, Lube, Fuel, Water Removal, Dust Removal, Fuel, Process, Water and other types to Complete Assemblies and accessories.

ELWOOD®



- ▶ Elwood® is an industry leader in Water Hydraulic systems.
- ▶ Applications using a high water content fluid and/or high pressure are the most advantages.
- ▶ Elwood's Water Hydraulic Components consist of: Poppet Type Directional Control Valves, Packed Spool Directional Control Valves, Descaling Valves & Pump Unloading Systems, Proportional Pressure Control Valves & Systems, Accumulator Systems and Modular ISO-Lock Valves.

Since 1958, Tri-State Hydraulics has earned a reputation in the industry for being a dependable source of quality products with prompt, reliable service. Through state-of-the-art equipment and dedicated craftsmen, Tri-State has stayed ahead of the curve in order to better serve their clients.

Our capabilities are un-matched in expert welding, precision machining and the ability to handle equipment weighing up to 30 tons. We also specialize in manufacturing custom designed components and equipment to meet all your specifications. A vital aspect of our operation is our in-house engineering and drafting services.

Tri-State maintains extensive facilities with a large inventory to quickly service your hydraulic and pneumatic needs. Also, our customized inventory tracking system provides accurate and up-to-date information providing you with immediate answers to critical questions.

No project is complete without passing our rigorous quality assurance testing. Every product is tested according to the manufacturer's specifications ensuring the highest quality from start to finish.

**"We don't repair cylinders,
we rebuild them."**

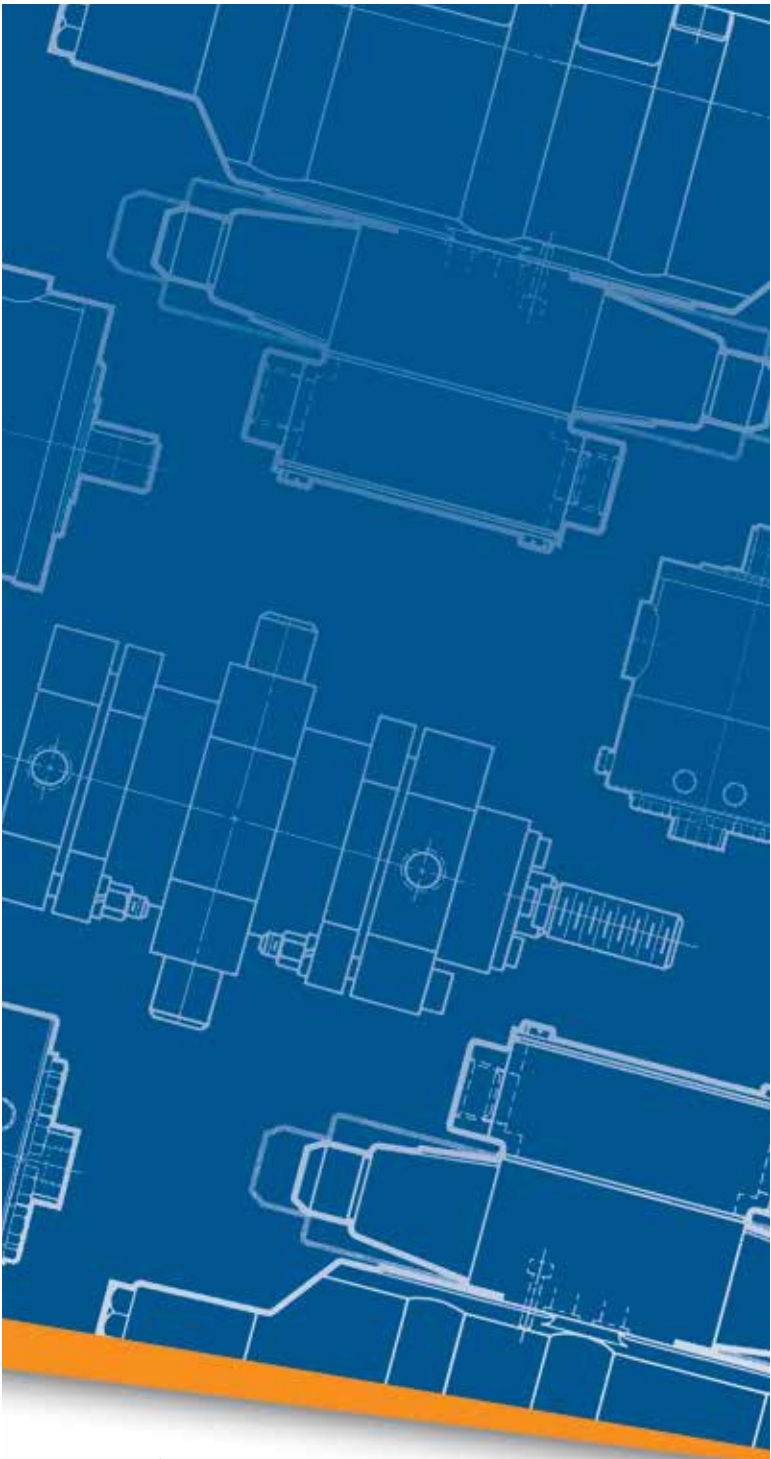
Jim Palmer Sr., Founder

Project Profile: NASA Crawler-Transporter



Tri-State Hydraulics was presented the 2010 USA Space Flight Awareness Supplier Award. Tri-State was one of the only four suppliers chosen to receive this award out of more than 2000 candidates. Tri-State was able to save USA nearly \$500k through the refurbishment of 10 JEL cylinders. Tri-State also designed and constructed a special testing fixture and high pressure power unit, creating a safe and reliable means to test each cylinder. Tri-State dramatically improved upon their quality standards as well to meet USA requirements, and now these standards are implemented company wide, showing that Tri-State places an emphasis on continuous improvement. If you would like to know more about this or any other project undertaken by Tri-State Hydraulics, feel free to contact us at or speak to your local sales representative. We would love to talk with you more about what Tri-State can do for you and your company!





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