

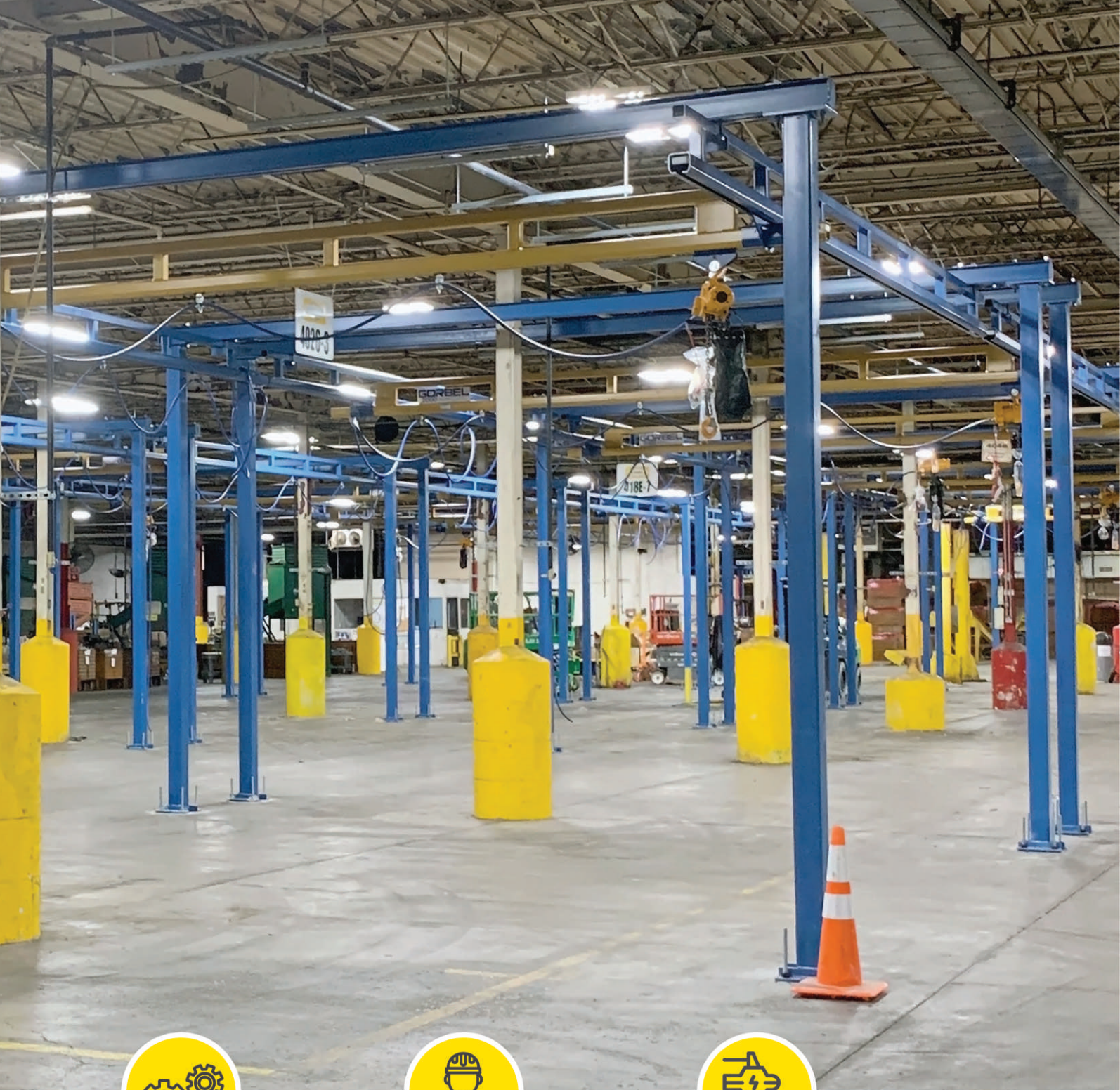


TRI-STATE

EQUIPMENT

C O M P A N Y , I N C .

Fall Protection / Hoists & Cranes /
Lift Assist / Robots & Automation



Custom
design
overhead
cranes &
lifting devices



On-site
installations,
safety training,
inspections



Modernization,
automation,
robotic workcell
integration

CONTENT

IMPROVING PRODUCTIVITY, INCREASING SAFETY & REDUCING LABOR COSTS

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TRI-STATE EQUIPMENT C O M P A N Y , I N C .



ROBOTICS & AUTOMATION DIVISION



Overhead Crane Manufacturing & Service

Tri-State Overhead Crane are experts in the design, fabrication and installation of overhead cranes and hoists. We manufacture and specialize in single girder and double girder cranes ranging in capacity from 1/2 Ton to 75 Ton. In business since 1959, we have invested in our facility and equipment to support our customers. We design your crane in-house. We fabricate your crane at our facility. We provide parts support. Our experienced Service Technicians and Installers are TSOC employees. We offer excellent customer service and stand by our cranes and products. We work with manufacturers as a master distributor of: chain hoists, jib cranes, gantry cranes, hoists, crane controls and other material handling products.



INSPECTIONS & SERVICE

TSOC has the largest group of field service technicians in the Midwest. Our technicians specialize in the service and repair of your cranes, and are fully capable of providing standard OSHA inspections and routine maintenance to keep your facility running.



AIR/ELECTRIC HOISTS

With over 60 years of experience, TSOC has relationships with all the major hoist manufacturers in the US including; R&M, CM, Harrington, Detroit, Demag, Budgit, Yale, Coffing and more.



WORKSTATION CRANES

Ideal for capacities under 2 Ton, workstation cranes can help productivity and throughput. Try out a workstation bridge, jib or gantry crane at your facility.





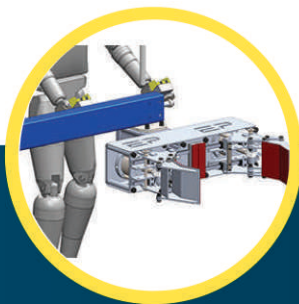
Cranes & Hoists



Custom Lift Assist

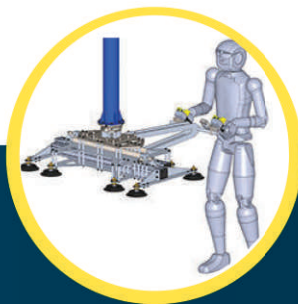
Custom Lifting Devices, Manipulators & Tool Balancers

We manufacture and specialize in custom lift assists, manipulator arms, vacuum lifters, pneumatic grippers, magnet grippers and tool balancers. We work with manufacturers in several industries including the pharmaceutical, automotive, HVAC, glass, solar, building materials, sheet metal, and more. Ergonomic Partners is an ergonomic material handling solutions company specializing in improving worker productivity while reducing the risk and associated costs of worker injury. With over 60 years of material handling experience, we combine the best off-the-shelf ergonomic material handling and workstation equipment. Our custom designed and engineered lifting devices and special equipment solutions help to create optimum cost effective improvements for your most demanding projects.



PNEUMATIC GRIPPERS

Pneumatic grippers are custom designed by our team of engineers to grip, rotate and pitch parts to our customers exact needs. These tools have been designed to grip copper coils, transmissions, automotive parts, batteries, coffee sacks, bar stock, wire spools, silicon ingots, computer servers, wheel hubs, electric insulators, castings, and many more.



VACUUM LIFTER

Vacuum lifters are ideal for lifting boxes, bags, sheet metal, glass, refrigerator panels, plywood panels and more. Our engineering staff can test your parts to ensure that your product is capable of being lifted with vacuum and can design your tool to transfer, pitch or rotate.



MANIPULATOR ARMS

With several off the shelf arms to choose from, EP manufactures low profile and reach-in applications up to 2000 lbs.



Robotic Integration, Cobotic Solutions and Workcell Design

We are a system integrator for Yaskawa/Motoman and KUKA robotics. We have a team of weld, mechanical, and robotic controls engineers that allows us to design, manufacture, and install customer solutions for the most challenging of applications. Our focus is to find practical and cost-effective solutions to your manpower and efficiency problems. We base our designs and solutions on providing the best ROI possible; assisting you in being able to justify methods that may have seemed out of reach in the past. Whether you have an existing job that you would like to reduce the manpower required to make your parts, or you have a new job you are trying to bid that would require or justify automation, we have a solution.



ROBOTIC MATERIAL HANDLING SYSTEMS

Our team of engineers specialize in the turnkey design, development and testing of your material handling applications including:

- Machine Tending
- Packaging
- Sorting
- Palletizing
- Pick & Place



PORTABLE WELDING SYSTEMS

Turnkey design, program and installation of welding applications. Services include:

- Fixture Design
- Portable Cobot System
- Optimize Cell Layout
- Weld Path Programming
- Vision Integration
- Safety System Design
- Laser Seam Tracking



PERFORMANCE OF DUTY ROBOTS

Our systems can be designed to assist with these everyday tasks:

- Cutting/Trimming
- Inspection
- Polishing/Grinding
- Deburring
- Machining
- Measuring





Robot Automation



Fall Protection

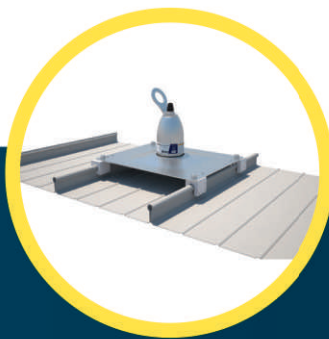
Horizontal Lifeline, Rigid Lifelines & Vertical Lifelines Engineered and Pre-Engineered

Engineered Fall Protection (EFP) is your turnkey solution provider for active and passive fall protection systems. Our fall protection experts receive the most up to date training to make sure that they can recommend the most suitable fall protection equipment for your application. Let us make the workplace safer while reducing the risks and associated costs of worker injury. We specialize in various types of Rigid Fall Protection and Industrial Safety Solutions. Our safety products and solutions will give your employees a level of safety protection they deserve with safety equipment and safety supplies that are comfortable, stylish, and effective. EFP has engineers on staff that are experienced in solving complex and simple applications. With experienced iron workers and certified welders on staff, EFP can handle the most complex installs. EFP is capable of evaluating rigid fall protection, wire rope systems, harnesses, SRL's and lanyards.



GUARDRAIL SYSTEMS

These fall protection guardrail systems are an OSHA compliant fall hazard protection barrier. The system requires no training, no special maintenance or gear, making it ideal for temporary construction guardrails and for protecting against temporary fall hazards. EFP provides solutions for any of your rooftop handrail or roof safety rail needs.



ROOF ANCHOR SYSTEMS

A permanent roof top anchor is often needed to allow workers to safely perform maintenance tasks on roof mounted equipment such as HVAC and industrial process related equipment. We offer a complete line of permanent roof anchor posts custom designed for each roof construction type.



PORTABLE FALL PROTECTION

There are several styles of these systems that provide mobile anchorage when no other tie off is offered.

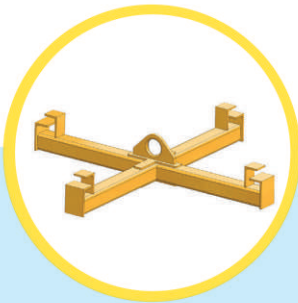




Rigging Hardware and Supplies

Tri-State Rigging Equipment specializes in manufacturing custom lifting slings, lifting devices, and rigging equipment for industrial use, as well as providing tire chains and load securement equipment to the transportation industry. We work with manufacturers as a master distributor of chain hoists, rigging components, lifting beams, spreader bars, and much more.

TSRE is a lifting and rigging solutions company specializing in improving worker productivity and safety. With over 60 years of material handling experience, we offer our customers the best off-the-shelf rigging equipment along with our custom engineered and manufactured lifting devices. Our custom devices and special equipment solutions help create optimum cost-effective improvements for your most demanding projects.



BELOW THE HOOK DEVICES

TSRE offers standard below the hook devices for common lifting applications such as; pipes or bars, coils, pallets, concrete slabs, sheets and plates, bundles, roll, and drums. In addition, we specialize in providing custom designed and fabricated below the hook lifting devices to fit any lifting or rigging application.



RIGGING HARDWARE

Tri-State Rigging Equipment is not only an authorized Rigging Weld and Service Center, but also a certified lifting and rigging hardware supply store. With over 60 years in the material handling industry, we are experts at selecting and providing the highest quality rigging hardware and supplies in the material handling industry.



CHAIN SLINGS

Alloy chain lifting slings are some of the toughest and most durable crane slings in the material handling industry. They are also highly customizable due to the vast amount of designs and fittings you can add.





Rigging Solutions

TRI-STATE EQUIPMENT C O M P A N Y , I N C .



ABOUT US

Tri-State Equipment Company, Inc. was founded in 1959. TSE has over 60 years of material handling experience, bringing customers solutions in repetitive lifting applications, precise product placement, and awkward load handling. Headquartered in St. Louis, Missouri, we are the leading Midwest supplier and manufacturer of overhead cranes, hoists, fall protection, custom lifting devices and industrial automation solutions.

Our 60,000 square foot facility houses a large crane fabrication area, machine shop, parts warehouse, and custom equipment test area. We are a turnkey solutions manufacturer for a wide range of material handling applications. We combine the best off the shelf material handling equipment with custom designed and engineered solutions to create optimum cost effective improvements for your most demanding projects. With sales staff

covering a large portion of the United States, we can meet with our customers to provide material handling improvements. These improvements help increase productivity and reduce manufacturing costs. Our large inventory levels, complete turnkey systems, competitive prices and a knowledgeable sales staff make Tri-State the obvious choice to provide your material handling solutions. We would love to see how we can help you and your business.

We Proudly Represent



MAGNETEK

DEMAG

Cranes & Components



ABELL-HOWE

HARRINGTON
HOISTS AND CRANES

KUKA

KEYENCE



REMTRON



Bishamon



STAHL
Crane Systems



COFFING®
HOISTS



SHAW-BOX®



CHESTER
HOIST



BUDGIT®
Hoists



GORBEL®
A CLASS ABOVE



HADEF®



IDEC YASKAWA





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