

# ***PREMIER SOLUTIONS PROVIDER***

***WE SOLVE PROBLEMS.*** 

Minimizing downtime, maximizing production.





**MCE: PREMIER SOLUTIONS PROVIDER. WE SOLVE PROBLEMS.**



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## FLOW CONTROL



**WE are MCE**, our collective strength is demonstrated through our vast experience, technical expertise, specialized services, and vendor support—providing you with a single-source supplier to help you achieve your goals.

We work to keep your operation running smoothly by ensuring product availability, solving your problems with customized solutions, and supplying on-demand technical expertise and support.

**WE ARE COMMITTED TO SOLVING YOUR GREATEST CHALLENGES:**



**PREMIUM-QUALITY  
PRODUCTS**



**TECHNICAL  
EXPERTISE**



**SERVICE, SUPPORT,  
AND REPAIR**



**TRAINING TO SUPPORT  
YOUR NEEDS**

We deliver parts, services, and effective integrated solutions when and where you need them, supported by exceptional customer service throughout the lifecycle of your operations.

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**COMPRESSED AIR**

**5**

**AUTOMATION**

**6**

**ENGINEERED SOLUTIONS**

# FLUID POWER

Fluid power products and services to enhance efficiency and reduce downtime for both original equipment manufacturers and end users.



## Fluid Connectors

Premium-quality Parker hoses, fittings, and quick coupling products supported by 19 on-demand retail ParkerStore locations and HOSE DOCTOR® mobile service.



## Hydraulics

Highly engineered Parker hydraulic pumps, accumulators, actuators, cylinders, valves, and other products backed by the technical support you need to put it together.



## Pneumatics

Parker air preparation, cylinders, valves, accessories, and repair kits for all of your pneumatic needs.



## Instrumentation

Highly engineered pressure and temperature process control instrumentation and systems from Parker.



## Filtration

Hydraulic and lube oil filters, replacement elements, air preparation filters, and service kits from Parker.



## Lubrication

Industrial lubrication equipment, petroleum management, and workholding products from Enerpac and Graco.



Parker Hannifin is a Fortune 250 global leader in motion and control technologies. Parker's engineering expertise, and broad range of core technologies uniquely positions the company to help solve the world's greatest engineering challenges.





## On-Demand Hose and Fitting Retail Locations

Knowledgeable sales associates at 19 retail locations across Wisconsin, Illinois, Indiana, Michigan, and Pennsylvania stocking Parker hose, fitting, hydraulic pneumatic, and filtration products, along with on-location hose assembly.

**“THE MOST KNOWLEDGEABLE STAFF OF ANY FLUID TRANSFER BUSINESS ANYWHERE IN TOWN. IF THEY CAN’T FIGURE OUT A SOLUTION FOR YOU, NO ONE CAN.”**



## HOSE DOCTOR® Mobile Service

Our 24/7/365 mobile service team of HOSE DOCTOR mobile repair units ensures that you experience the minimum amount of downtime possible.



## Inventory Solutions

Effectively eliminate your inventory shortages, eliminate delivery delays, and reduce freight expenses by making certain your critical inventory items are always in stock.

# HYDRAULIC REPAIR

For expert repair, manufacturing, and re-engineering of hydraulic cylinders and components look no further than Lone Star Machine Works. We pride ourselves in our sense of urgency and dedication to service in order to meet each customers individual needs.



## Full-Service Machine Shop

Specializing in hydraulic repair, precision machining, welding, and fabrication, our hydraulic repair specialists are dedicated to maintaining the highest standards of quality and service to our customers.



## Hydraulic Cylinder Repair and Manufacturing

Our state-of-the-art engineering allows us to rebuild or manufacture all types and brands of hydraulic cylinders:

- » Furnace Tilt Cylinders
- » Electrode Regulation Cylinders
- » Boom Extension Cylinders
- » Roof Swing Cylinders
- » Spindle Balance and Support Cylinders
- » Outrigger Cylinders
- » Roof Lift Cylinders
- » Chop Gate Cylinders
- » Mast Cylinders
- » Roll Change Cylinders
- » Boom Lift Cylinders
- » Telescopic Cylinders





## Welding

Welding Capabilities: MIG, TIG, FCAW, SMAW, SUB ARC, Bronze overlay, and more.



## CNC Precision Machining

Our CNC machining equipment has enormous capability, enabling us to do prototypes or production runs.



## Fabrication

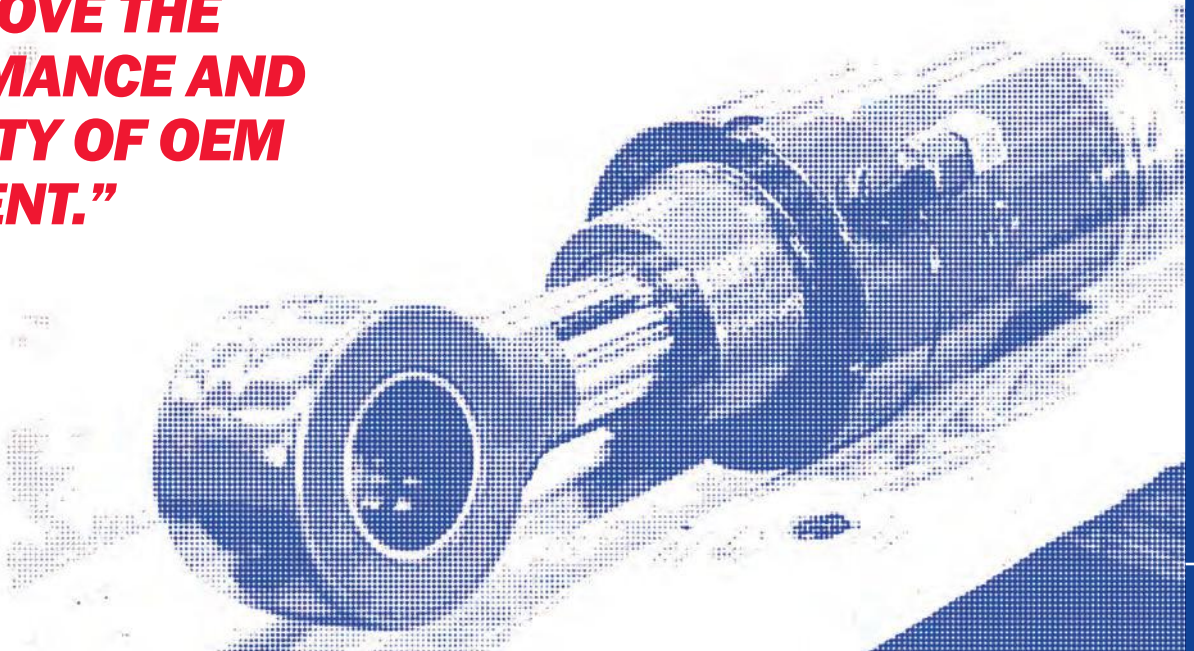
Our experienced team can fabricate anything from prints, customer instructions, or even samples.

# 24/7/365

## EMERGENCY REPAIR



**THEY DO WHAT WE NEED  
THEM TO DO... THEY HELP  
ME IMPROVE THE  
PERFORMANCE AND  
LONGEVITY OF OEM  
EQUIPMENT."**



# FLOW CONTROL

We provide complete process control solutions with multi-brand offerings in valves, actuators, instruments, and controls, including:



## Process Valves and Actuation

Fully assembled packages that are tested prior to delivery, with the ability to place solenoid valves and position indicators.



## Process Instrumentation

We provide a wide range of measuring instruments designed to be used for flow, pressure, temperature, level, and analytical measurements.



## Steam Traps and Condensate

Full line of non-clogging and trash-tolerant traps and condensate solutions include free-float and thermodynamic options to ensure optimal heat transfer.



## Control Valves

Broad selection of control valve options—ranging from micro-trim to velocity control for multiple service applications including steam, water, gases, and liquids.





# SWANSONFLO» NIGHTWINE» VALVES & ACTUATION



## Service and Repair

Full-capability service and repair offered both in-house and in-field. Built on more than 50 years of application experience and technical knowledge, our technicians are factory-certified to repair valves, automation, and instrumentation and can re-manufacture and refurbish to OEM specifications.



## Training and Technical Support

Learn best practices from our experienced team and manufacturer partners with classes offered in our training center or on-site at your facility, customized to your application and product lines.

# COMPRESSED AIR

We offer certified industrial compressed air solutions from the industry's most trusted manufacturers.



## Air Compressors

A wide range of air compressor options for a variety of applications including lubricated rotary screw, lubricated reciprocating, oil-free, booster, and medical functions.



## Air Treatment

Wide variety of dryers and filters, includes refrigerated, desiccant, membrane, and deliquescent types. And we supply condensate drains and oil/water separators.



## Vacuum and Blower Systems

Custom vacuum and blower solutions feature systems specially designed and built to fit your individualized needs and specifications.



## Mobile Air Stations

Cost-efficient, mobile air stations enable year-round operation, featuring a portable outdoor cabinet that allows operation regardless of weather conditions, while operating with energy costs 8 times lower than regular diesel compressors.



## Nitrogen Generation

We can design and provide complete nitrogen systems that can improve efficiency and reduce costs and lengthy contracts. Most systems return investment within two years or less.



## Modular Piping

Design and installation of modular piping systems that increase affordability, reliability, efficiency, and durability that can only be achieved through an all-metal system.



## Water Cooling

Able to provide water chillers, cooling towers, and dry coolers for any industry.



**THEY ARE EXCELLENT. IT'S A PLEASURE TO WORK WITH THEM. THEY RESPOND QUICKLY—I CAN COUNT ON THEM TO GET IT DONE."**





## Air as a Utility

Our “airtility” offering provides you with maximum efficiency by deploying custom-designed solutions that incorporate state-of-the-art equipment to optimize your system’s performance. We can reduce your costs by leveraging a rental and maintenance program to eliminate your need for capital investment, engineering investment, disposal cost of consumables, and purchasing and stocking of spare parts and lubricant—all at one fixed monthly fee.



## Service and Repair

With service and sales facilities in Cleveland, Toledo, Pittsburgh, and Erie—we ensure your service needs are met quickly, while our factory-certified technicians guarantee the job is done right. No matter the model or manufacturer, Diversified Air Systems will repair your rotating equipment efficiently and economically.



Using the most modern technologies, equipment, and advanced manufacturing techniques, Sullair designs, manufactures, assembles, and tests the most innovative compressed air and vacuum products in the industry. Sullair products are known around the world for their universally applicable design, outstanding craftsmanship, and superior quality.

# AUTOMATION

Complete automation solutions for engineers and manufacturers.



## Motion and Control

Top-of-the-line vendors to fulfill our comprehensive, best-in-class motion and control solutions that include mechanics, motors, drives, and controls, plus a complete line of robots and robot systems.



**YASKAWA**



## Feedback

We feature the highest quality rotary and linear encoders for motor and mechanical position feedback of hydraulic cylinders including in-cylinder absolute position sensors and sealed aluminum profile absolute position sensors for outside cylinder applications. Our optical linear encoder products can be used in applications with position measurement to .1 Micron. Our staff is trained to assist you in specifying the correct feedback device for your application.



## Safety

Featuring quality Schmersal safety products, offering the world's largest range of safety switchgear and systems—securing personnel, equipment, and processes.



**SCHMERSAL**  
Safe solutions for your industry



## Vision

Our vision specialists can help you automate processes enhancing your product identification, packaging, and quality assurance. For additional support, we conduct product needs assessments, conducting reviews of product specification requirements for measurement/ gauging, features present or absent, color, and bar code reading.



## Sensing

We specify, support, and sell non-contact sensors for use in product detection applications including laser sensing and measurement, plastic and glass fiber optic sensors, proximity/retroreflective through beam photoelectric sensors, and ultra-sonic sensors. Proximity switch offerings include metal detection inductive and all product capacitive sensors. Units are available for the harshest environments, including caustic wash down and welding applications.



## Connectivity

Our engineering and technology support team will help you to identify and program the technologies that will best care for your in-plant and remote connectivity, giving you access to your PLCs, motion controls, drives, and other supporting hardware.







## Panel Building

Our panel building capabilities are demonstrated through our UL 508 shop building to UL specifications and labeling enclosures—possessing all regulations and certifications—designing and delivering integrated solutions that include hardware, bills of materials, electrical schematics, and mechanical design documentation.



## System Integration

Our system integration solutions begin with software and hardware integration to ensure the delivery of effective, efficient, project-based solutions, specializing in motion and machine vision applications.



**THEY HELPED US TAKE OUR MACHINE  
DESIGN TO THE NEXT LEVEL.”**



# ENGINEERED SOLUTIONS

## A Comprehensive Resource

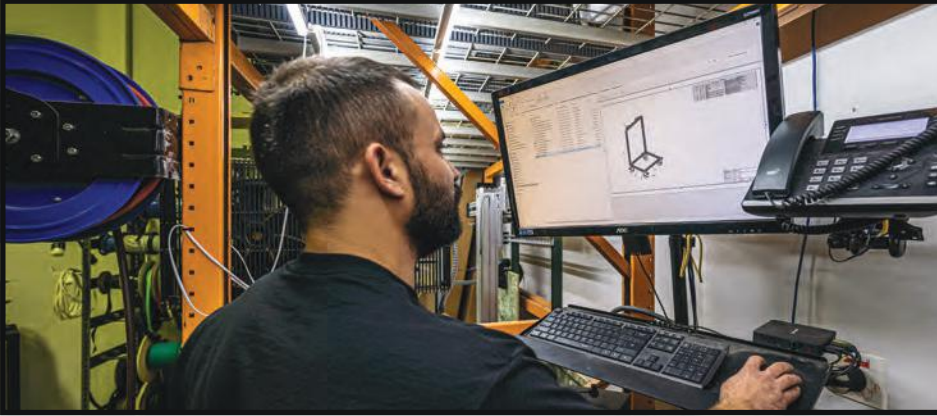
Spanning all MCE lines of business, our Engineered Solutions Group offers custom design and engineering solutions that bring together leading technologies and innovative problem-solving capabilities—offering robotic, hydraulic, lubrication, pneumatic, and electrically actuated motion and machine control solutions to the manufacturing and process industries.



“

**ON A SCALE OF 1-10  
THEY ARE A 10...  
THEY NEVER LET ME  
DOWN... MAKE ME  
FEEL LIKE I'M THEIR  
#1 CUSTOMER.”**





## Expertise

- » Hydraulic system design, installation, and repair
- » Pneumatic systems and sub-assemblies
- » Lubrication systems
- » Filtration systems and portable filter carts
- » Product test systems and stands
- » Automated engineered systems
- » Systems integration and machine control programming
- » Electrical panel documentation, design, and assembly
- » PLC, motion controller, and VFD programming
- » Power units and energy management



## Value-Added Services

- » Project management
- » Electric panel design, documentation, building, installation, and start-up
- » Machine design and conceiving
- » Machine control and motion upgrades to existing machinery
- » 2D and 3D drawings
- » Predictive maintenance monitoring solutions
- » Technical support
- » Training



## OUR PROMISE TO YOU

Every product and solution we offer is designed to meet your specific needs and unique circumstances.

We deliver products and parts with rapid, reliable service and unwavering support as you pursue your most desirable outcomes. From specification through project completion, we dependably deliver what, when, and where it is needed—to ensure your success.

**More than 50,000 products** on hand at **25 stocking locations** including **19 walk-in stores** and **8 manufacturing facilities**.

LEARN MORE AT **MCEAUTOMATION.COM** OR SPEAK TO AN  
MCE REPRESENTATIVE TODAY AT **1-800-WE-SOLVE**