



MECHATRONIC SOLUTIONS

Product & Service Overview





Aluminum Extrusion

Automation Control

Connectivity & Networking

Conveyors

Custom & Standard Enclosures

Linear Motion

Machine Bases

Machine Safeguard

Machine Vision

Motion Controllers & Drives

Part Feeders

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Precision Stages

Robotic End Effectors

Robotics

Rotary Motion & Gearboxes

Sensors

Workstations & Assembly Tables

Automation Technology Delivered

Mechatronic Solutions is a leader in providing high-quality automation technology products, solutions, and services to companies across nearly all industries in Minnesota, Wisconsin, North Dakota, and South Dakota.

At Mechatronic Solutions, we are experts in automation technology. Over 50% of our employees are engineers and automation specialists. We have an extensive Automation Solutions Lab with a variety of hardware, including robots, part feeders, vision, PLCs, and more for proof-of-concept testing. We also offer frequent education and training sessions on all automation technologies for our customers.

With a highly trained and skilled team, customer-centric approach, and partner network that features some of the top automation manufacturers in the world, including Dorner, Festo, Omron, Yaskawa, and many more, we are here to work with you as your partner in automation.

Contact Information

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Mechatronic Solutions is a distribution partner for the following leading manufacturers:



Aluminum Extrusion

We are a stocking distributor for TSLOTS, the leading aluminum extrusion manufacturer on the market. With metric, fractional, and B-series options, there is a solution for any project. Additionally, our team can design and fabricate a custom extrusion assembly to your exact need and specification.



Extrusion (Fractional, Metric, B-Series)

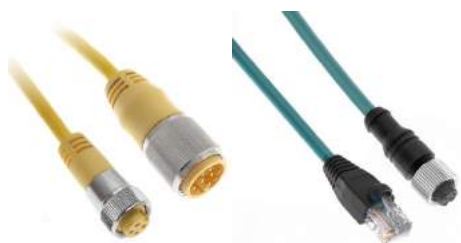


Extrusion Components

Brands:  **TSLOTS.**
BY BONNELL ALUMINUM

Connectivity & Networking

Seamless network connectivity and communication is crucial in today's manufacturing environment. We carry industry-leading solutions from Mencom, including Ethernet switches, junction blocks, and PICs.



Cable & Cord Sets



Ethernet Switches



Junction Blocks



Panel Mount Accessories



PICs

Brands: 

Control & Sensors

Automation control and industrial sensor products are essential for managing and monitoring manufacturing processes. Our selection of products in this category includes human-machine interfaces (HMIs), industrial PCs, programmable logic controllers (PLCs), power supplies, and a variety of sensors.



HMIs



Industrial PCs



PLCs



Power Supplies



Remote I/O



Temp Controllers



Fiber Optics



Measurement Sensors



Photoelectric Sensors



Presence Detection



Rotary Encoders



Ultrasonic Sensors

Brands:

OMRON

FESTO

Lenze

EAT•N

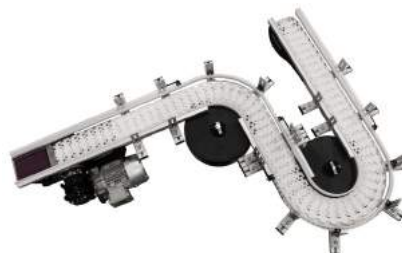
AAEON®
an ASUS ASSOC. CO.

Conveyors

Mechatronic Solutions is a leading distributor of Dorner conveyors. Dorner's wide variety of industrial, precision, and sanitary conveyance solutions are designed to optimize production output and efficiency. We can also help design custom conveyor systems specific to your need and application.



Belt Driven



FlexMove



Industrial Roller



Pallet



Sanitary

Brands:



Custom & Standard Enclosures

We offer enclosures from Saginaw Control & Engineering (SCE) and Vynckier. Enclosure solutions include NEMA 4, NEMA 4X, various build materials (steel, stainless steel, non-metallic), and many other options.



Non-Metallic



Steel



Stainless Steel

Brands:



As a distributor for Festo, Bell-Everman, SMAC, and HIWIN, we offer a large selection of linear motion solutions. Products include ballscrews and guideways, electric and pneumatic cylinders, belt and electric guided drives, mini slides, and gantry systems.



Ballscrews



Electric Cylinders



Electric Guided Drives



Guideways



Miniature Slides



Pneumatic Cylinders



Toothed Belt Axes



XYZ Systems

Brands:

FESTO

SMAC
Moving Coil Actuators

HIWIN
Motion Control and System Technology

Bell-Everman
Automation Redefined™

Machine Bases

BUILT Systems' machine bases are constructed with cold-rolled steel to provide a strong foundation for your machines. Driven with custom-designed actuators, they are height-adjustable and capable of lifting 800-6500 pounds.



MB800



MB1200



MB3500/6500

Brands: **BUILT**
Systems

Machine Safeguarding

There is nothing more important than keeping your team safe. We carry Omron's full line of safety products, the largest in the industry, which includes area scanners, light curtains, controllers, mats, and relays. We also carry GSM hard guarding and can develop a custom guarding solution specific to your need.



Area Scanners



Custom Hard Guarding



Light Curtains



Safety Controllers



Safety Mats



Safety Relays

Brands: **OMRON** **GSM**

Machine Vision

Our comprehensive selection of machine vision and identification products includes barcode readers/scanners, industrial machine vision cameras, RFID solutions, vision systems, and smart and PC-based cameras.



Barcode Readers & Scanners



Machine Vision Cameras



RFID Solutions



Smart Cameras

Brands: **OMRON**

Motion Controllers, Servo Drives & VFD's

Mechatronic Solutions is a leading distributor of motion controllers, servo drives, and variable frequency drives (VFDs) from Yaskawa, Omron, Lenze, and Festo. Product offerings include single-axis servo drives, multi-axis high performance motion controllers, VFDs for control of AC motors, and more.



Industrial VFDs



Motion Controllers



Servo Drives

Brands: **YASKAWA OMRON FESTO Lenze**

Part Feeders

Part feeders are a significant aspect of many robotic systems and automated manufacturing processes. Our selection of feeders includes Asyri's award-winning 3-axis vibration Asycube series and Omron's mechanical AnyFeeder. Parts ranging from <0.1mm up to 150mm can be fed with these systems.



3-Axis Vibration Feeders



Mechanical Feeders

Brands: **asyri** **OMRON**

Pneumatics

Mechatronic Solutions carries market-leading pneumatic products from Festo and Fabco-Air. Pneumatic solutions include air preparation units, valves and manifolds, vacuum components, and fittings and tubing.



Air Preparation



Fittings



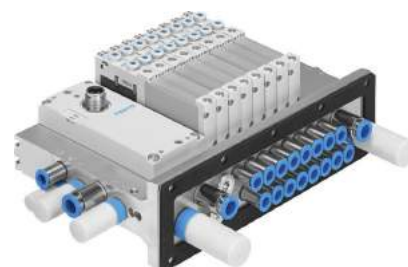
Standalone Valves



Tubing



Vacuum Components



Valve Manifolds

Brands: **FESTO** **FABCO-AIR**
A member of Festo Group

Precision Stages

Our vast selection of stages range from linear motor driven to precision ball screw stages to rotary stages to multi-axis configurations. We can also configure custom stages based on application positioning specifications.



Linear Stages



Rotary Stages

Brands:  **FESTO** **YASKAWA**

Robotic End Effectors

To get the most out of your robots, you need the proper end effector or end-of-arm tooling. We have a solution for any application with a variety of grippers from SCHUNK, Robotiq, Festo, Schmalz, and Zimmer.



2-Jaw Grippers



3-Jaw Grippers



Magnetic Grippers



Needle Grippers



Robotiq Grippers



Vacuum Grippers

Brands:  **ROBOTIQ** **FESTO**  **ZIMMER** group

Robotics

Mechatronic Solutions is a leading robotics distributor for Omron, Yaskawa Motoman, and Mecademic. With a robust offering of collaborative, multi-axis, miniature 6-axis, mobile, parallel, and SCARA robots, we have options for any application, including assembly, dispensing, inspection, machine tending, material handling, packaging, palletizing, pick and place, welding, and more.



Collaborative



Miniature 6-Axis



Mobile



Multi-Axis



Parallel



SCARA

Brands:

OMRON **YASKAWA**  **MECADOMIC**

Rotary Motion & Gearboxes

As a distributor for leading manufacturers Yaskawa, JVL, Omron, Leeson, Lenze, and Wittenstein, our vast selection of rotary motion and gearbox products includes AC motors, DC motors, direct drive motors, gear motors, planetary gearboxes, servo motors, and stepper motors.



AC Motors



DC Motors



Direct Drive Motors



Gear Motors



Planetary Gearboxes



Servo & Stepper Motors

Brands:



Workstations & Assembly Tables

BUILT Systems' assembly tables and workstations use an electric height-adjustable system to create an ergonomic solution for your employees. There are many optional add-ons available for customization.



Assembly Tables



Workstations

Brands:



Automation Solutions



Custom Conveyor Systems

Standard off-the-shelf conveyors often need to be customized to accommodate certain applications and layouts. Utilizing industry-leading Dorner conveyors, we can develop a custom conveyor system specific to your need. We can provide design assistance, full or partial assembly, and run-off testing for your system.



Machine Guarding

Machine guarding is critical to maintaining a safe work environment. We can deliver machine guarding safety fences combined with machine safety products such as light curtains or area scanners. Our team is available to provide design services as well as full mechanical and electrical assembly.



Pneumatic Control Panels

Mechatronic Solutions is a leader in the production of custom pneumatic control panels. Utilizing high-quality components from industry-leading manufacturers, Festo and Fabco-Air, we deliver fully assembled and tested panels that provide a centralized control for your operations utilizing pneumatics.



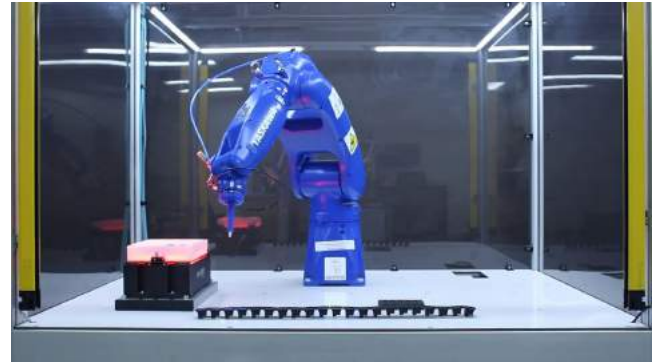
UL 508A Electrical Control Panels

We are a UL 508A certified panel shop for a variety of solutions involving electrical and automation components. Our engineers can develop electrical schematics and design panels to your specification, then our experienced electrical assembly technicians will construct and test the panel before shipping it to you.



Aluminum Extrusion Assembly

From conception using 3D Solidworks models to construction, our team can provide cut and assembled TSLOTS extrusion to your exact need and specification. Common types of assemblies include frames, guarding for machine and robotic cells, cabinets, carts, workstations, and enclosures.



Feasibility/Proof-of-Concept Testing

Feasibility/proof-of-concept testing is an important part of our approach to providing high-quality automation solutions. We have a team of application engineers and an extensive Automation Solutions Lab with demo equipment for testing, including robots, part feeders, vision, end-of-arm tooling, PLCs, and more.



Kitting

Mechatronic Solutions provides kitting services for any automation project to help our customers save major time and money. We'll build a list of all parts, purchase and receive them, provide any assembly and testing if necessary, package everything into a kit, and deliver it in one shipment to your facility.



Manufacturing/Assembly Services

We provide contract manufacturing and assembly services including engineered subsystems for customers in a variety of industries. With design services to create subsystem solutions that fit seamlessly into new or existing processes, we can save you time, money, and hassle in your manufacturing operations.



MECHATRONIC

SOLUTIONS

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