



Power/mation[®]

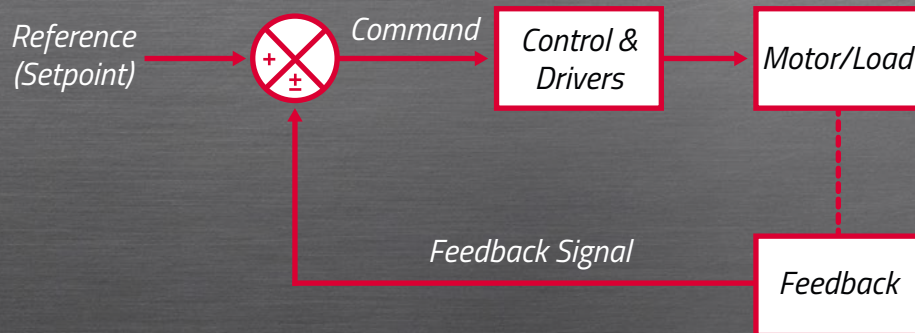
Motion Solutions

- World-Class Products
- Fieldbus Technology
- The Power/mation Advantage
- Custom Solutions

www.powermation.com
800.843.9859



FUNDAMENTAL TO AUTOMATION



Motion control is an automation technology that has become the cornerstone of modern industrial machinery design. Power/mation has multiple motion experts on staff, putting a focus on working closely with customers to achieve their automation goals. The simple control loop shown is a visualization of a basic application. Power/mation's technically trained sales and technical specialists build on this principle for a solution tailored to you.

WORLD-CLASS MOTION SUPPLIERS

**CONTROL
TECHNIQUES**

Lenze

YASKAWA

FESTO

EMERSON

Industrial
Automation & Control
Distributor

Tolomatic
EXCELLENCE *IN MOTION*

Orientalmotor

TRIO
MOTION TECHNOLOGY

 **APEX DYNAMICS**

EXLAR

IAI
Quality and Innovation

THK
The Mark of Linear Motion

nexen

A Full Line of Motion Technology

Power/mation is your premier supplier for motion technology. Our product portfolio features actuators, motors, servo motors, drives, controllers, software, and anything else you require for a fully automated solution.



- High performance motors & drives
- Application modules
- Motion Made Easy™
- PLC controlled motion works with Rockwell AOIs and Siemens function blocks



APEX DYNAMICS

- Servo planetary gearboxes
- High performance hypoid gearboxes
- Rack and pinion systems



- Machine control & visualization
- Easy multi-axis configurations
- FAST modules for ease of programming
- Full suite of software applications
- Data backup available with IIoT options



- High force electric actuators
- Integrated servo actuators
- Fully integrated drive-motor-actuator combinations



- Stepper systems
- Rotary actuators
- Linear actuators
- Brushless DC motors
- Multi-axis EtherCAT solutions



- Linear motion guide systems
- Ball screws
- Electric actuators
- Cross roller systems



- Machine control & visualization
- Easy multi-axis configurations
- Tuning-less setup:
 - 30:1 inertial mismatch standard
 - Anti-resonance & vibration suppression



- Stainless steel actuators
- Fully integrated motors & actuators
- General purpose actuators
- High force actuators



Emerson's programmable automation control systems offer a single, scalable solution to deliver safe, secure communication between real-time deterministic controls and non-deterministic applications to analyze and optimize your operations, maximizing productivity and minimizing downtime.



- Economical, flexible and seamless control of 1 to 128 axes
- Versatile control platform compatible with virtually all servo/stepper manufacturers
- Powerful software tools (CAD Conversion, CAM Profile, Active-X)
- DX4 Motors & Drives for seamless integration with Trio EtherCAT controllers



- Electric screw and belt driven rod cylinders and slides
- Closed loop brushless servo and stepper drives and motors
- EMCA Integrated smart motor concept with integrated fieldbus
- SMS Simplified motion, value-based motion control
- Innovative ELGC series as stand-alone or interconnected assemblies



- Industry-first rail & servomotor brakes
- Rod locks
- Roller pinion systems
- Rotary indexers



Motion and Your Application

Motion is found in a wide variety of industries and key to successfully implementing automation in those industries. Two key improvements you will see when adding motion to your application are an enhanced level of productivity and an ease of use. A motion solution from Power/mation is the most impactful change you can make to increase or standardize your production.



Packaging

Power/mation motion specialists and our technically trained sales team have a proven record of installing packaging applications. From entire solutions, to augmenting your current application, our products offer high speed, repeatable, and precise results.



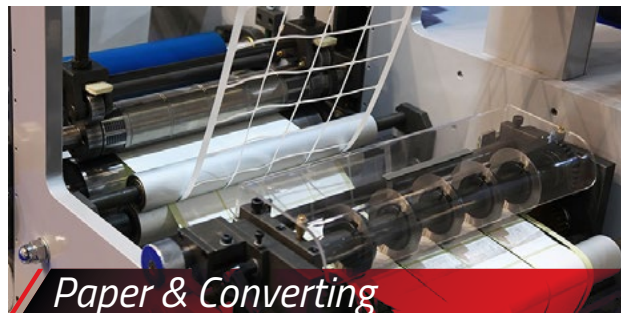
General Manufacturing

Move it how you want to, when you want to. Basic or advanced motion control including pressing, indexing, machining, and metering are well within Power/mation motion solution capabilities.



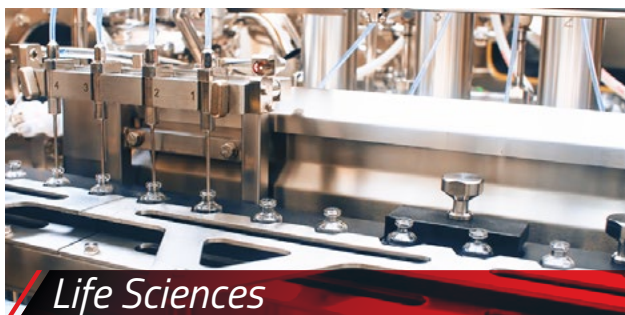
Food & Beverage

Power/mation offers a full line of actuators and servo motors to fit the demanding needs of washdown applications. Many products are rated at IP69K to meet FSMA (Food Safety Modernization Act) requirements.



Paper & Converting

Motion solutions from Power/mation bring precision to your application first and foremost. For web handling applications our motion products allow precise speed and torque control for minimal substrate waste and maximum machine uptime.



Life Sciences

Precision is key to any medical device or pharmaceutical application. Electronic motion control permits you to accurately assemble devices, fill containers, and package product to your exact specification. Rotary and linear actuators serve multiple purposes such as centrifuges, volumetric filling, or simply indexing items down a production line.



Assembly & Testing

Power/mation offers coordinated machine controllers to streamline your application and increase efficiency through a reduction in cycle times. Implementation is easy with all-in-one software packages and help from your knowledgeable Power/mation sales team.

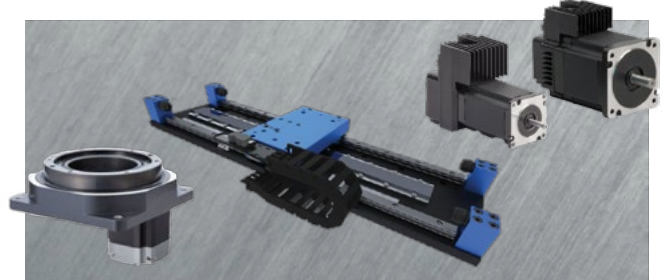
The Power/mation Advantage

When you work with Power/mation you have access to both a broad product portfolio as well as a wealth of automation expertise. Whether building your solution from the ground up, or modifying an existing application, the Power/mation sales team and Power/mation Solutions Group can either assist with your design or provide a total custom solution.



Servo Drives & Controllers

Standalone, single-axis, or multi-axis coordinated systems. The Trio Motion MC664, Yaskawa MP2600iec or MP3300iec, Control Techniques Digitax HD, and Lenze i950 are exceptional options in this category. Contact us to determine the correct option for your application.



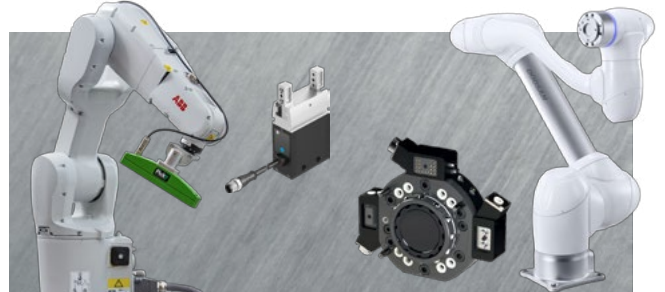
Rotary & Linear Motion

We will help you identify the correct motion solution for your application. Key suppliers include Tolomatic, Exlar, and Festo with product highlights including the Yaskawa Sigma Trac II, Oriental Motor DG rotary actuator and high dynamic servo motors.



Fieldbus Technology & Software

High speed communications protocols are standard including Ethernet/IP, Profinet, EtherCAT, and Modbus TCP. Power/mation products are programmed with the industry's common software including Basic, IEC 61131, PLCOpen, and CODESYS.



Robotics

Thinking about robots? So are we. Power/mation has robotics specialists on staff to support our comprehensive product line led by ABB and Doosan Robotics. Industrial six axis, gantry, delta, SCARA, and collaborative models are available. Grippers, tool changers, vision equipment, and other accessories complete your solution.



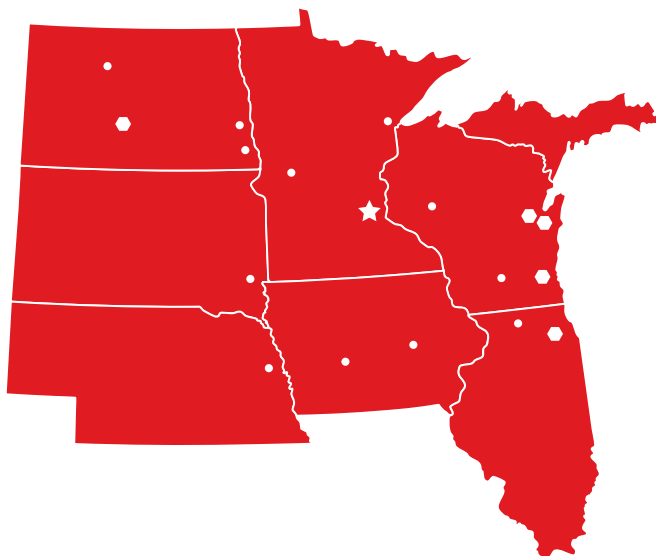
Custom Solutions

Power/mation Solutions Group is our dedicated team specializing in enclosure modifications, part kitting, fully custom safety fencing, and working with our network of service providers to complete your project. We are ready to assist you with:

- Motor sizing & requirements
- Motion programming
- Machine design
- Fabrication
- Multi-axis motion
- Mechanical design
- Machine design & conceptualization

Corporate Headquarters

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