



Power/mation[®]

Robotics Solutions

- A Full Line of Industrial Robotics
- Robotics and Your Application
- The Power/mation Advantage

www.powermation.com
800.843.9859





TOTAL ROBOTIC SOLUTIONS.





The need for robots in the manufacturing industry continues to grow as highly repetitive labor jobs are becoming more difficult to fill and injury risks to a human workforce present liabilities to companies. Robots fill this gap in the workforce with a proven return on investment while offering other job growth opportunities within your organization.

A Full Line of Industrial Robotics

Whether you are packaging, palletizing, handling materials, performing assembly operations or machine tending, Power/mation has the solution for you. Led by ABB, Power/mation offers a full line of industrial robotics including six-axis, delta, gantry, SCARA, cartesian and collaborative options.



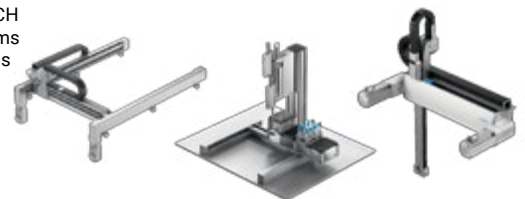
- Multiple Six-Axis Variants
 - IRB 8700
 - IRB 6700
 - IRB 460
 - and More
- Delta
 - IRB 360 FlexPicker®
- Collaborative
 - YuMi®
 - Single-arm Yumi®
- SCARA
 - IRB 910SC



- Collaborative Robots
- Three product series available
- High payload model available
- Vision guided
- Force torque sensing



- Planar Surface Gantry EXCH
- Cartesian Handling Systems
- Parallel Kinematic Systems
- Innovate Gripper Design
- and More



- IXA High Speed SCARA
- TTA Tabletop Series
- Wrist Unit
- Cartesian
- Single Axis



MACRON DYNAMICS, INC.

- Heavy Duty Gantry Options
- H-Bot Gantry
- T-Bot Gantry
- and More



Robotics and Your Application

The suite of machinery in Power/mation's Robotics Solutions portfolio covers a wide gamut of applications via multiple technologies. See below for examples on how you can implement robotics into a similar application of your own or for further inspiration. If you would like to discuss your need for a robotics solution, call us at 800.843.9859 to talk with a Power/mation expert.



Machine Tending

Using robots for machine tending decreases part cycle time, saving you money while ramping up productivity. The process of feeding parts in and out allows the operation to be ready as soon as the current cycle is complete. Using a robot also removes the operator from potentially dangerous work environments.



Palletizing

Robotic palletizing allows you to keep your product lines moving, while at the same time reducing potential workplace injury risks. Using robots to unload full pallets will also be a valuable way to increase productivity and protect your workers. Power/mation has complete turnkey solutions for both robotics and machine safety.



Automated Assembly

Using robotics for assembly eliminates repetitive tasks allowing personnel to work on more delicate and demanding tasks. Robots can also reduce unwanted repetitive motion injuries and will maximize work cell uptime to increase productivity. You can expect more consistent cycle rates and better product consistency.



Product Picking & Packaging

Picking product from a moving conveyor and placing them into a container can be a challenging application. PickMaster® Twin is the market-leading robotic software for vision-guided random flow picking and packing. Integrating conveyor tracking and vision cameras into one solution allows flexibility for many applications.



Gantry Systems

When an application spans a large area, a gantry solution may be the best option. From belt-driven or rack and pinion, to small tabletop or large material handling systems – we have solutions to serve you. Power/mation can provide fully installed systems, or the gantry robot to be installed with your existing control solution.



Welding

Increase productivity, weld quality and consistency by using robotics for welding. We offer hardware solutions including robot arms and positioners, as well as complete turnkey weld cells built to your specifications.

The Power/mation Advantage

Power/mation works with name brand vendors in the robotics industry. We also partner with the best local integrators, allowing us to work together to bring your project from concept to completion in a safe and timely manner. Combined with our access to auxiliary products like dress packs, end of arm accessories, safety components, sensors and enclosures, Power/mation is your complete robot solutions provider.



Pendants

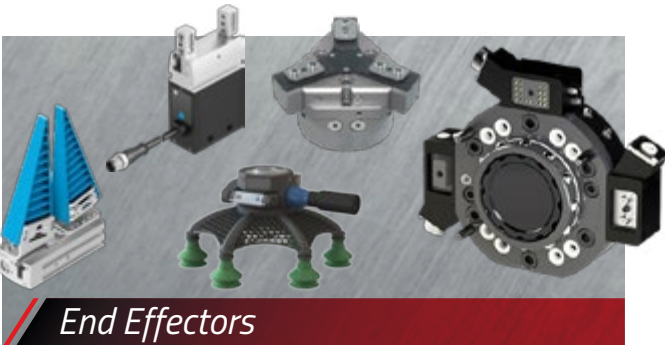
ABB's offering of control pendants is designed to suit both the experienced technician and those who have little to no experience in operating industrial robots. The pendants are easy to use and ergonomically crafted to be comfortable with easily accessible emergency stops.



Vision

Increase the speed and flexibility of your robotic solution with Pick-it 3D vision software and cameras. This technology is compatible with ABB robotics as well as many other well known robot manufacturers.

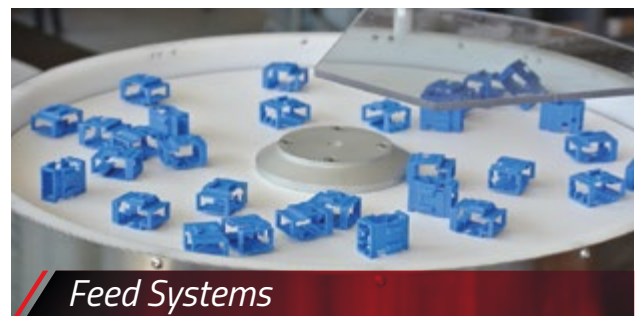
Pick-it
ROBOT VISION MADE EASY



End Effectors

While many end effectors are custom designed for an application, Power/mation offers models from the following vendors for everyday tasks with servo electric, vacuum and pneumatic actuation options available.

- Festo
- Robotic Systems Products
- Zaytran (Festo)
- IAI
- Schmalz



Feed Systems

A flexible feed system that works through combining actuation of servomotors and an impulse generator. Once bulk components lie on feeder surface with the right orientation, the vision system can locate them and send coordinates to the robot for pick up. Product changes can be made in a matter of seconds without any difficulty.

FlexiBowl



Custom Safety Fencing

Power/mation
SOLUTIONS GROUP

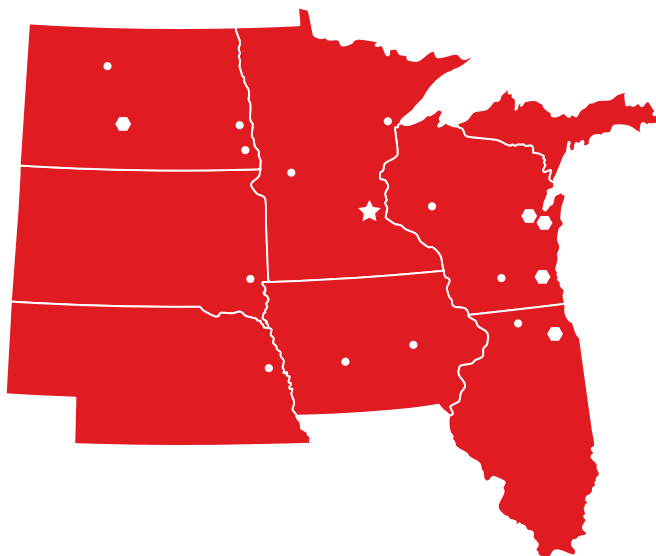
Robots move quickly, often with heavy or hazardous payloads. Power/mation Solutions Group produces custom safety fencing and offers in-depth programming services to make sure your robot is tailored to your application.

The functionality of your robot safety cell is enhanced with the latest in safety hardware available from our top suppliers of light curtains, laser scanners, interlock switches, safety sensors, enabling devices, relays, controllers and an all-new volumetric radar sensor from Inxpect.



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