

EPSON ROBOTICS



Olympus 
CONTROLS®



EPSON

Epson Industrial Robots

For more than 35 years, the world’s top manufacturers have relied on Epson Robots to reduce production costs, improve product quality, and increase their bottom line.

Precision automation specialists providing customers with the power of choice means Epson has the right robot for your application.

Series	Payload	Reach
5, 6-axis		
Flexion N	6 kg	450-1000 mm
C4	4 kg	600-900 mm
C8	8 kg	700-1400 mm
C12	12 kg	1400 mm
SCARA: 4-axis		
G	1-20 kg	175-1000 mm
LS-B	3-20 kg	400-1000 mm
RS	3-4 kg	350-550 mm
All-in-One		
SCARA T	3, 6 kg	400, 600 mm
6-axis VT	6 kg	900 mm





Robotic Arm (5, 6-axis)

Compact, high-performance 6-axis robots offer outstanding flexibility and reliability. With a unique SlimLine design and reduced footprint, Epson's 6-axis robots are able to work in tight spaces like never before.

SlimLine Design

A slim body and compact wrist enable Epson 6-Axis robots to easily reach confined spaces from many angles.

First "Folding Arm" Design

The innovative concept of the Flexion N-Series offers significant advantages in motion and workspace efficiency.

Reduced Vibration

Leading-edge Residual Vibration Technology utilizing Epson's proprietary Quartz Micro Electro Mechanical Systems (QMEMS) helps significantly reduce vibration, yielding smoother motion and faster positioning.

SCARA (4-axis)

Providing customers with the power of choice has made Epson the #1 SCARA Robot manufacturer in the world. Epson has the right robot for your application. Sizes range from 175 to 1,000 mm in reach. Payloads up to 20kg.

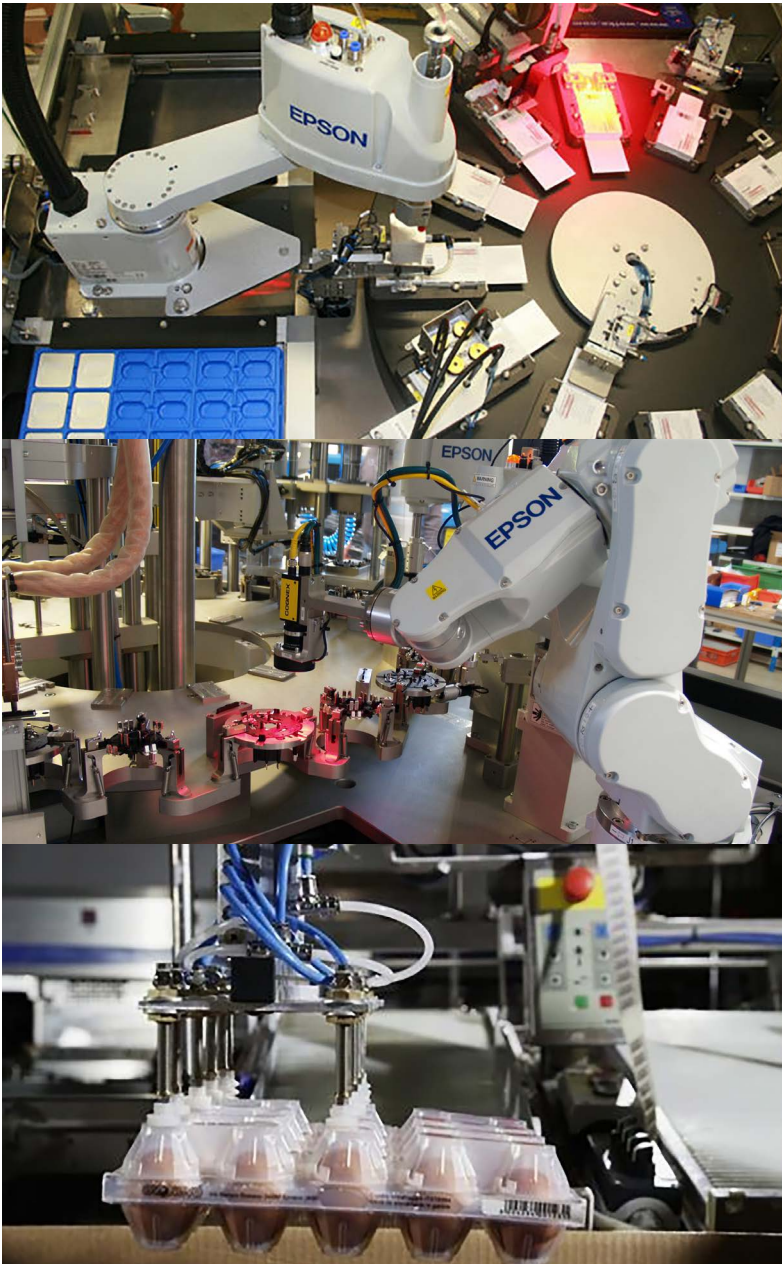
- High Precision: High repeatability down to 5 microns.
- High Speed: Fast cycle times using advanced Epson motion technology.
- Vast Lineup: Hundreds of models are available in a variety of configurations to meet your application needs.



ANSI and CE compliant



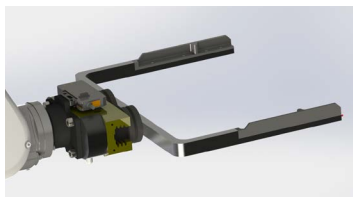
APPLICATIONS



[click here for a quote](#)



[click here for a quote](#)



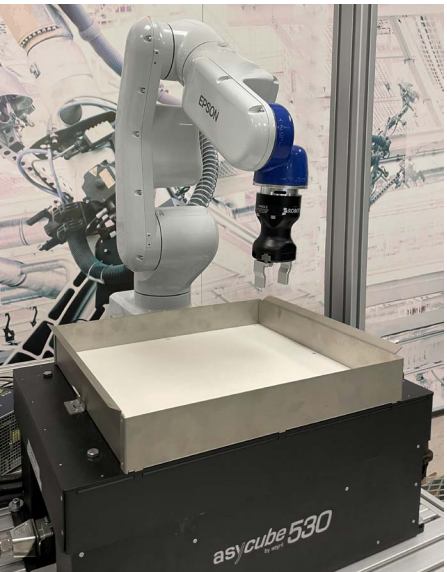
CUSTOM GRIP

Robot Grippers

Custom Grippers are needed many times to grasp your particular product with the robot.

Olympus Controls has the engineers and the gripper components to design and build exactly what you need to solve your application.

From small precision devices to large payload we can help you figure out how to make it work.



[click here for a quote](#)



Robot Grippers

We offer multiple Standard Grippers options to meet your applications needs:

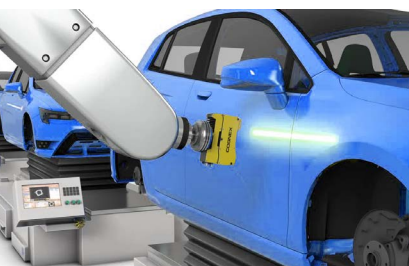
- Adaptive Grippers made for real manufacturing; use the same Gripper model for all automation cells in your factory.
- 2-Finger Adaptive Grippers compatible with all major industrial robots.
- 3-Finger Grippers with four grip modes; each with force, position and speed control.
- Mechatronic parallel grippers, with no sharp edges, making accidental snagging practically impossible.

We offer plug & play integration packages.

GRIPPERS



[click here for a quote](#)



3D SCANNERS

3D Scanners

3D Sensors offer easy-to-use, flexible designs that deliver high-performance machine vision with seamless data communication so your factory can operate more efficiently and profitably.

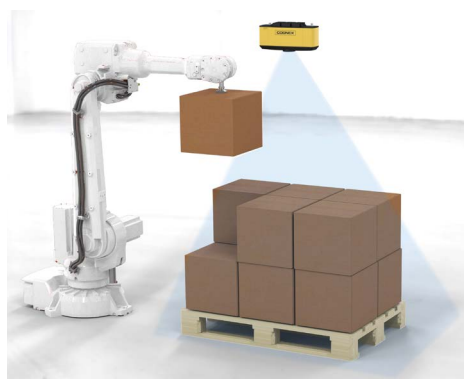
Laser Profilers

Point and Line Profile Sensors scan any moving target with height resolutions down to 1.1 μm and sampling speeds up to 32 kHz, while providing seamless communication with factory machinery and systems to deliver a complete automation solution.

Snapshot Sensors

Stereo Snapshot Sensors generate 3D shape and surface data with a single scan trigger. Ideal for automated assembly using robot guidance, non-contact volume gauging, and a variety of process automation applications.

Multi-sensor networks connect by controllers for scanning large or complex objects (i.e., with irregular surface geometry and multiple occlusions).



[click here for a quote](#)



Epson Vision Guide

Guiding robots with machine vision enables flexible manufacturing and production lines to readily accommodate product changes.

In addition to locating parts for pick-and-place or guiding a robot to assemble components, machine vision can also inspect, measure and read 1D and 2D barcodes as products are being handled or assembled.

It also eliminates costly precision fixturing, prevents accidental robot collisions, and processes various part types without a tooling changeover.

- User-intuitive programming
- Fast development with point-and-click interface
- Combination robot/vision simulator
- Low-cost scalable system
- High-precision parts placement
- Industry-leading vision tools
- Field-interchangeable vision systems & parts
- Powerful throughput
- Expansive camera & application support
- Remote & classroom-based training options available



VISION GUIDE



[click here for a quote](#)



FORCE GUIDE

Epson Force Guide

Epson's high-performance Force Guide takes robot automation to the next level with superior precision and outstanding rigidity.

Powered by proprietary Epson Quartz Technology, it enables Epson robots to detect six axes of force with precision down to 0.1 N. Driven by real-time servo system integration, Force Guide delivers fast, tactile feedback to guide robots for high-precision parts placement.

Easy to configure and set up, Force Guide features a point-and-click interface with pre-configured solutions and built-in objects, reducing the development time for precision repeatability applications.

- Detects force and adjusts motion with amazing precision – down to 0.1 N
- Durable sensor built to withstand excessive force
- Internal sensor with real-time servo system integration
- Point-and-click setup with graphical wizards, charts and more
- Fast, easy implementation
- Real-time monitoring and data logging of force feedback
- Multi-axis force/torque sensor
- Easy set up and configuration
- Perfect for tasks like screw driving, part insertion, grinding/polishing and more



[click here for a quote](#)

Pneumatic/Electric Tool Changers

Accommodate many different styles of parts in the same robot cell or machine by automatically changing end effector tooling and modular fixturing quickly and easily by using pneumatic/electric tool changers.

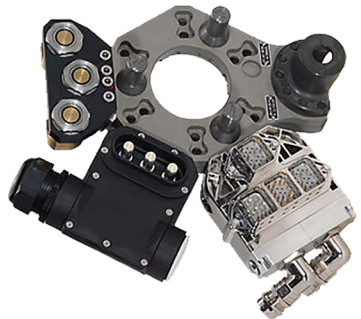
Designed with exceptional repeatability, high rigidity and load capacity, automatic tool changers are ideal for any robotic application.

They are perfect for flexible, multi-tool applications using only one robot.

For example, if an operation requires assembly, testing and material handling, the automatic tool changer can take each tool individually and switch them one after the other to complete its required tasks.



AUTO CHANGER



[click here for a quote](#)



FEEDER

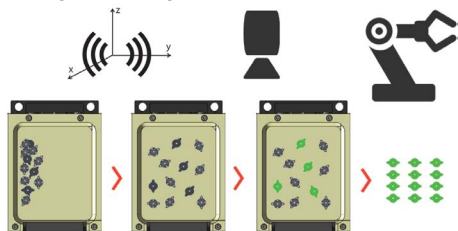
IntelliFlex Feeding System

Powered by Epson robots, IntelliFlex Software and Vision Guide, the Epson IntelliFlex Feeding System delivers a high-performance, easily integrated parts-feeding solution to accommodate a wide variety of parts.

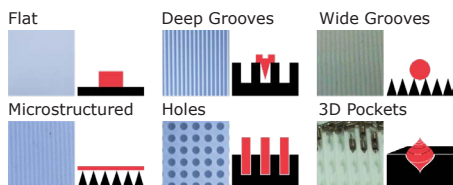
Fully integrated with Epson RC+® Development Software, the IntelliFlex Feeding System offers easy setup and configuration. Its point-and-click interface helps reduce the typical development time required for advanced applications.

Intelligent auto-tuning offers fast setup for flexible parts changeover and multi-axis vibration technology provides optimized parts control and singulation.

Multi-axis vibration technology for optimized parts control



A variety of sizes available to handle a wide range of part types and sizes



- Four feeder sizes: supports parts from 3 to 15mm, 5 to 40mm, 15 to 60mm and 30 to 150mm
- Quick parts changeover saves costs
- Compatible with a wide range of parts: simple to complex parts; even delicate materials
- Unique directional vibration capabilities: multi-axis vibration technology for optimized parts control, singulation
- Tray configuration options: ESD, anti-static and anti-rolling available (varies by model)



[click here for a quote](#)



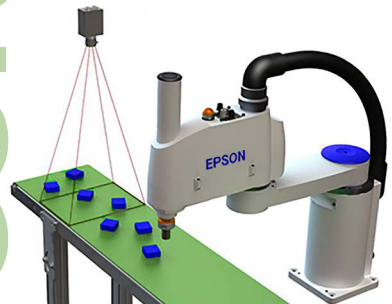
Conveyor Tracking

Epson Conveyor Tracking is a powerful option which allows parts to be picked from a moving conveyor in a coordinated fashion. It can be vision or sensor based and multiple robots or multiple conveyors can be used.

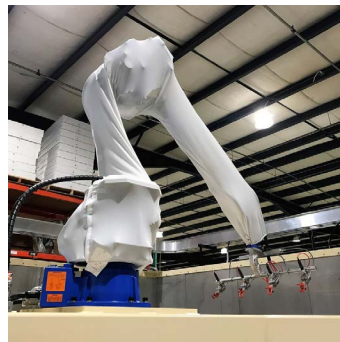
Conveyor tracking is commonly used in the food and packaging industries. Typical food applications include tracking of chocolates, candies, bread, etc. to put them in boxes or group them together for packaging.

- Flexible, powerful, yet easy to use
- Can be vision or sensor based
- Multiple robots can be used on one conveyor
- Multiple conveyors can be used with one or more robots
- Tight Integration with Epson RC+, Vision Guide and other features
- Used for a wide variety of applications and industries

CONVEYER



[click here for a quote](#)



Disposable Covers



Temperature Covers

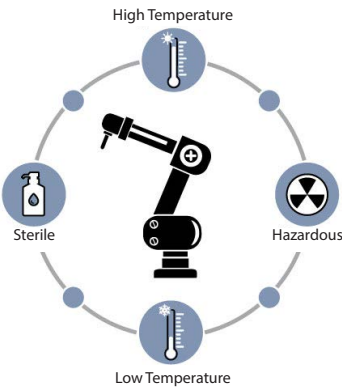
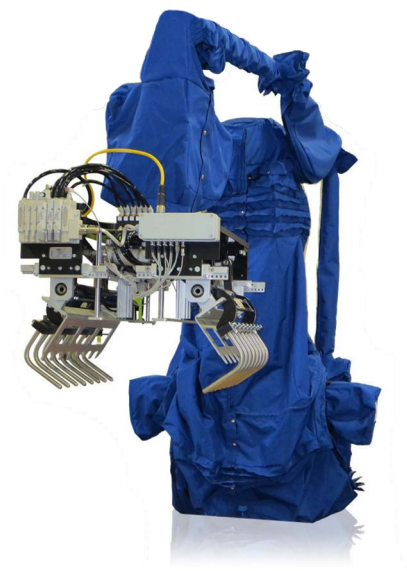


Fluid Resistant Covers

PROTECTION

Robosuit® Covers

Extend the life of your robot with a Robosuit®. Protect your robot and avoid lost productivity time, high maintenance fees and replacement costs. Custom designed and manufactured from premier grade of materials to counter harsh environmental agents and meet the needs of specific conditions. Engineered to ensure unrestricted movement and maintain ultimate performance.



[click here for a quote](#)



Pendant Covers

Energy-absorbing frame for industrial robots teach pendant provides protection if accidentally dropped from heights of up to 4 feet.

Manufactured from Santoprene™ rubber, it is immune to water and most water-based cleaning agents with excellent resistance to most industrial lubricants, coolants and cutting fluids. Custom molded to the teach pendant's exterior shell and includes protective ridges molded around rotary switches and e-stop buttons that do not interfere with operation. USB connection access is also preserved. Textured to maintain positive grip/feel in wet conditions or in the presence of lubricants/coolants. Ultimate protection for teach pendants to prevent lose of valuable production time.

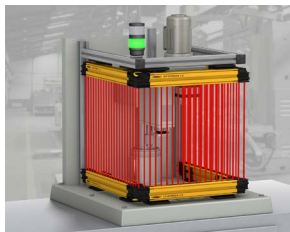
Touch-sensitive Screen Protectors

Polyethlyene Terephthalate (PET) touch-sensitive film protects pendant screens from abrasion, most oils and greases. Film overlays are shipped pre-cut to specific screen size and guaranteed to perform with specific LCD display. Like any plastic, may discolor or soften over time when exposed to harsh chemicals and should be replaced as site conditions dictate.

PROTECTION



[click here for a quote](#)



Programmable Safety Controller

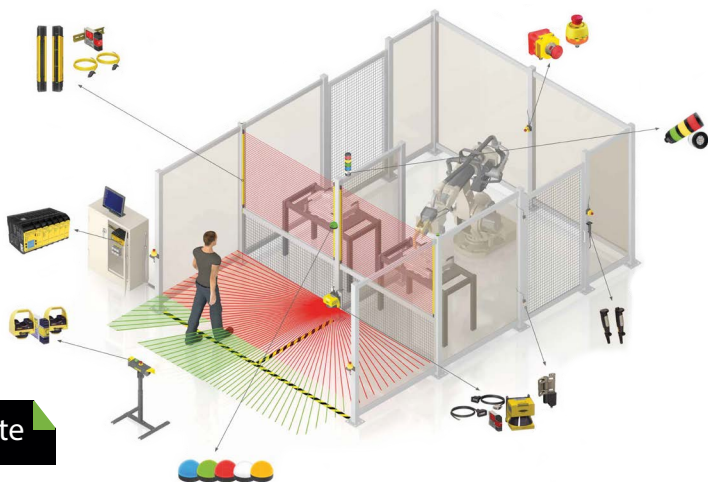
Industrial safety controllers provide an interface between safety devices and the machines and processes those devices monitor. With up to 8 optional I/O expansion modules, controllers can adapt to a variety of machines, including large scale with multiple processes. Controllers with a smaller footprint and Boolean logic functions are designed to be easy to use, flexible and efficient.

Safety Laser Scanners

Suitable for horizontal, vertical and mobile applications, safety laser scanners protect personnel, equipment and mobile systems by continuously scanning a user-defined area of up to 275° to create a two-dimensional protected zone.

Light Curtains

Safety light curtains protect personnel and machines by creating a sensing screen that guards machine access points and perimeters. Various lengths.



[click here for a quote](#)



Enclosures/Safety Fences

Since 2006 Olympus Controls has been designing and supplying our customers with custom machine frames and safety guarding solutions.

Utilizing modular aluminum extrusion systems we work with customers to offer robust design and fast turnaround times. Modular automation systems for production equipment deliver unlimited reusability and easy post-assembly changes that save time and cut costs.

The core of this machine framing and guarding is its unique aluminum extrusion and fastening technology which strictly follows a lean manufacturing concept of "More with Less".

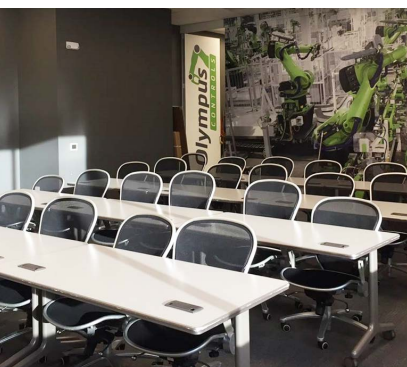
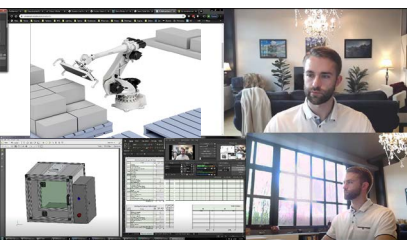
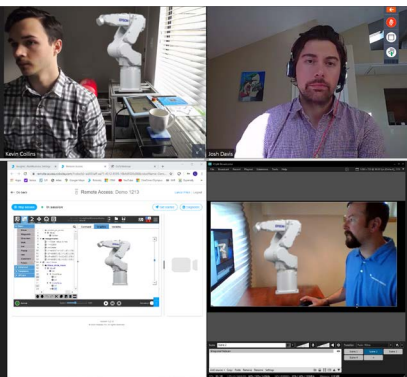


Extruded Aluminum

ENCLOSURE



[click here for a quote](#)



**Course Descriptions
or To Register**
Click here



click here for a quote

TRAINING

Workshops & Webinars

Offered both in classrooms and online, our training classes are taught by factory-trained engineers who have years of experience in the subject matter. Most in-person classes include lab stations for hands-on product experience.

Onsite Training

Developing automation proficiency at Olympus Controls, we consider ourselves technical leaders in the industry. However, our product knowledge is only beneficial when we can share it with you. Whether you're a veteran of factory automation looking to brush up on your skills or you want to learn about a new technology, our classes provide you the training needed to be proficient.

Tech Centers with training located in:

- Seattle, WA
- Tualatin, OR
- San Jose, CA
- San Diego, CA
- Phoenix, AZ
- Dallas, TX





Remote & On Site Visits

If you want to explore these robots and share this technology with your team, schedule an in-person—or virtual—visit with one of our robotic specialists. They will demonstrate the equipment at your location—or remotely—and even help with a proof of concept. We have robotic specialists in our NW, CA & Gulf divisions.

DEMO



SCHEDULE A VISIT

In Person or Virtual

503.582.8100

sales@olympus-controls.com

Request a Demo
Click here



click here for a quote

Contact Us for More Info!

503.582.8100



WHERE
INNOVATION
MEETS
AUTOMATION®



www.olympus-controls.com

sales@olympus-controls.com

NW DIVISION

Corporate HQ

13633 SW Industry Ln. Ste
100 Sherwood, OR 97140
503.582.8100



Seattle Office

19308 68th Ave S
Kent, WA 98032
503.582.8100

CA DIVISION

Fremont Office

47603 Lakeview Blvd
Fremont, CA 94538
503.582.8100

San Diego Office

10451 Roselle St, Ste 100 San
Diego, CA 92121
503.582.8100

MSW DIVISION

Phoenix Office

3618 E Southern Ave, Ste 1
Phoenix, AZ 85040
800.236.0607

GULF DIVISION

Dallas Office

6025 Commerce Dr Ste. 550
Irving, TX 75063
503.582.8100



Portland | Seattle | Fremont | San Diego | Phoenix | Dallas

sales@olympus-controls.com