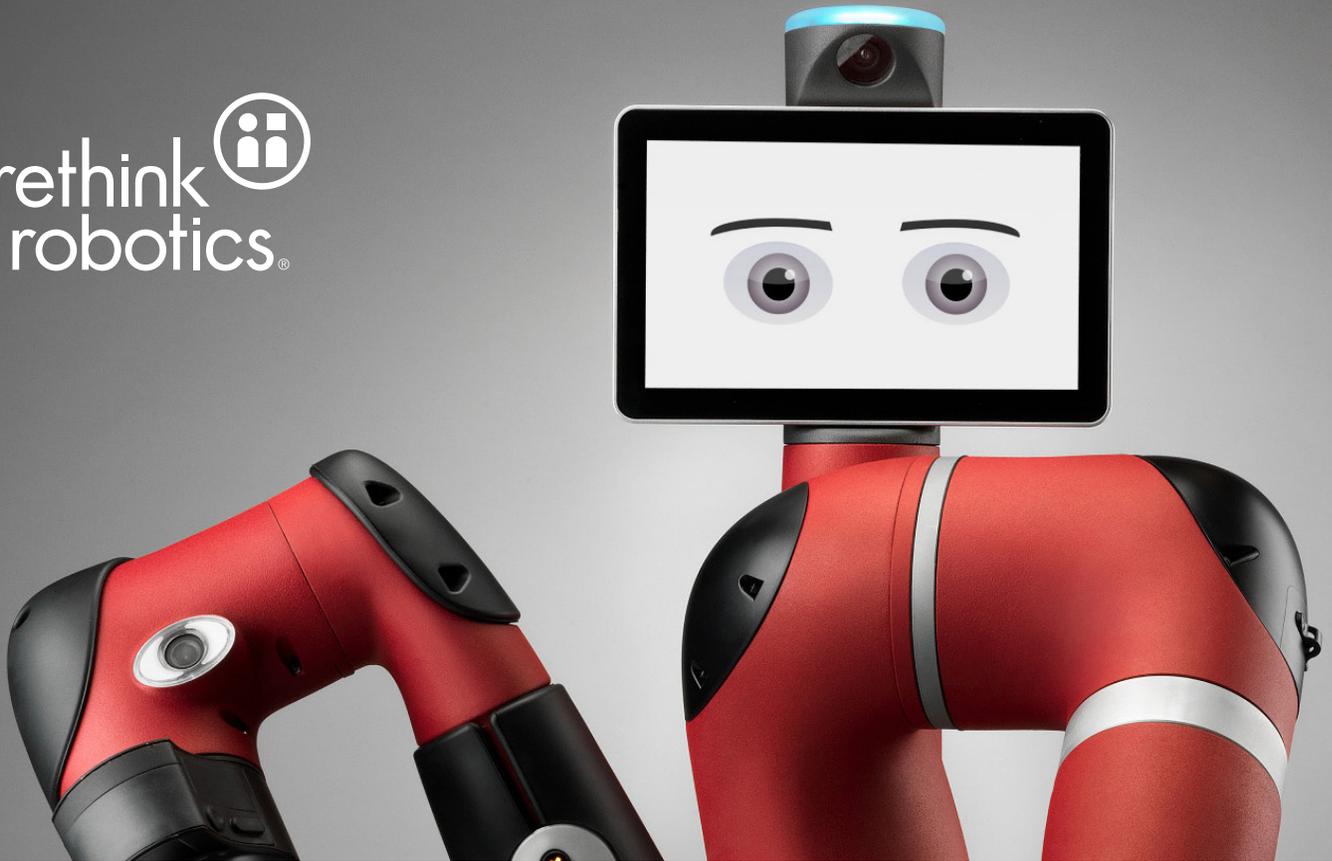


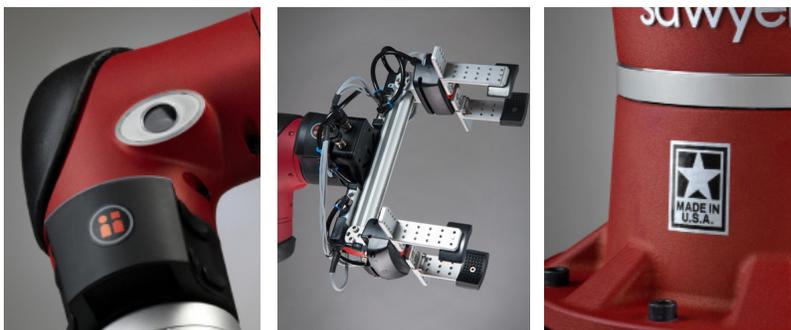
rethink 
robotics®



Triad has partnered with Rethink Robotics to offer Sawyer, the industry's fastest-to-deploy collaborative robot.

Sawyer features a 7 degree of freedom robot arm with a 1260 mm reach that maneuvers into tight spaces and operates in work cells designed for humans.

Embedded vision and built-in force sensing capabilities allow it to make adaptive decisions as tasks run, enabling Sawyer to work precisely, while operating effectively, safely, and collaboratively next to people.



COMMON APPLICATIONS

- **CNC Machining**
Loading/unloading CNC machines; support varied cycle times and finishing operations, increase uptime, and lower scrap rates.
- **PCB Handling and ICT**
Tending circuit board testers; move and manipulate delicate components throughout the process.
- **Metal Fabrication**
Tending press brake machines; improve worker safety and satisfaction, increase productivity, improve quality.
- **Molding Operations**
Tending injection molding machines; reduce cycle times, increase machine time utilization, and reduce errors.
- **Packaging**
Packing cases, packaging parts and materials, and stacking layers for different types of products and containers.
- **Line Loading and Unloading**
Moving parts to and from tables, cases, conveyors, fixtures, and more, maintaining counts and re-orienting parts.
- **Test and Inspection**
Multi-point inspection with a single camera, full digital traceability of results, error proof processing.

WHY SAWYER?

NO PROGRAMMING

Sawyer can be trained easily, by simply moving its arm and demonstrating the movements. Sawyer is up and running, performing a task, in a matter of minutes.

CERTIFIABLY SAFE

Sawyer is designed with a comprehensive safety system, which means there's no need for machine guarding or other safety mechanisms typically required for traditional industrial robots. Sawyer is certified to meet ISO requirements by TÜV Rheinland (ISO 10218-1:2011 and PLd Cat. 3).

VERSATILE

Sawyer is designed to perform simple and repetitive tasks quickly and efficiently, freeing up your people to focus on higher-level, more value added activities.

ROBOT POSITIONING SYSTEM

Sawyer uses markers, called Landmarks™, in conjunction with its existing embedded vision system to help users to more quickly and easily re-deploy the robot when workstation variations occur or to start completely new applications.

EMBEDDED AND EXTERNAL VISION

Sawyer is equipped with an embedded Cognex Vision System in its arm that enables the Robot Positioning System and other complex vision tasks. Sawyer's vision system also allows you to seamlessly integrate an external camera in minutes to leverage your own in-house systems.

FORCE SENSING

Sawyer is constantly controlling joint torque and position simultaneously. Sawyer's force sensing behaviors make deployments easier and faster since it can easily be inserted into workspaces and use fixtures designed for humans.

CLICKSMART GRIPPER KITS

All the essential components for you to quickly construct end effectors suitable for most tasks.



INTERA INSIGHTS

Intera Insights provides critical production metrics directly on the robot, and can identify production anomalies before they become problems. Key Performance Indicators, such as cycle times and part counts, are accessible on the factory floor in real time. The same customizable data is also fed to Intera Studio, providing visibility to other team members.



SPECS	Max Reach	1260 mm (49.6 in)	Operating Temp	5°C - 40°C (41°F - 104°F), 80% Relative Humidity
	Gantry Reach	900 mm (35.4 in)	Joint Ranges	J0 - J3 = 350 degrees, J4 - J5 = 340, J6 = 540
	Payload	4kg (8.8 lb)	Power Requirements	100-240 VAC, 47-63 Hz, 4A Max
	Typical Tool Speed	1.5 m/s	I/O Ports	8 digital in / 8 digital out
	Degrees of Freedom	7	Communication	Modbus TCP, TCP/IP
	Task Repeatability	±0.1 mm (±0.004 in)	IP Class	54
	Standards	ISO 10218-1:2011	I/O End of Arm	4 digital in / 2 digital out / 2 analog in / 24 VDC 2A

FIND OUT HOW SAWYER CAN WORK FOR YOU

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