

Application Evaluation Form

Sawyer



The purpose of this form is to provide details of a process or an operation that is being evaluated for deployment of a Rethink Robotics smart, collaborative robot. Please fill out one form per application.

Customer Responses

General Information

Company Name

Primary Industry

Respondent Name & Title

Application Name

Application Description

Please review key application videos of [Sawyer](#). Does this process match or resemble any of these applications?

[CNC Machine Tending](#)

[Molding Operations](#)

[Metal Fabrication](#)

[PCB Handling/ICT](#)

[Packaging](#)

[Line Loading and Unloading](#)

[Test and Inspection](#)

General Production Information

What is the frequency of this process (e.g. 24x5, 16x7, etc.)?

In how many stations does this process occur?

How many operators (on average) are required per station?

How often is the line changed to a different part/process?

Tip: Customers can easily move Sawyer from one process to another by using the [Robot Positioning System](#) to rapidly re-deploy.

Cycle/Takt Times

What are the required cycle/takt times for the process?

What is the target output per minute/shift/day/etc.?

Tip: Often the robot can move [multiple parts](#) at a time with a customized gripper to achieve desired cycle times.

Tip: Some customers may consider to run a slower production rate, if an operator is not required to stay at that station.

Specifications of Parts, Machines, Fixtures

Please describe relevant machine dimensions, packaging/box dimensions, work cell layout, reach requirements, etc.

Note: Rated payload of Sawyer is 4 kg (8.8 lbs.), inclusive of part and end of arm tooling.

Process Tolerances (Repeatability Requirement)

Sawyer uses proprietary [Compliant Motion Control](#) technology in addition to traditional positional control to [adapt to real world variability](#) and deliver repeatability of +/- 0.1mm.

Description of Material Flow

Please describe the infeed and outfeed processes for materials. How will parts arrive and exit the work cell?

Note: Depending on work cell layout and part presentation, other equipment or structures (e.g. conveyors, guide pins/ fixtures, etc.) may be desired or required for a robust process flow.

Operating Environment Requirements

Please list relevant environmental conditions for the robot in the proposed space or work cell, including ESD or EMI.

Note: [Sawyer](#) Operating Temperature Range 0-40 °C, ≤ 80% relative humidity; Ingress Protection Rating 54 (IP54)

Desired Outcomes

What are the main reasons you would like to automate this process?

(Please select top 1-2 reasons.)

- Reduce production costs on current process
- Make personnel available for higher value operations
- Improve process quality/consistency
- Improve employee retention/recruitment
- Reduce environmental/process hazards or ergonomic conditions
- Other (please specify)

Key Features

Which aspects of Sawyer are most important for you?

(Please select top 1-2 reasons.)

Affordability/Value – cutting edge technology, minimal investment

Flexibility – able to quickly switch applications/processes

Ease of Use – no advanced training required to operate

ROI – most applications reach ROI within 6 months

Safety – no caging or guarding required

Other (Please specify)

Additional Comments

Please use this space to note any additional comments, questions, or concerns.

Thank you for taking the time to complete this form. Rethink Robotics is looking forward to working with your organization to determine great applications for our smart, collaborative robots.