

## Smart, Collaborative Robot for Precision Tasks

Introducing Sawyer™ – the revolutionary new high performance collaborative robot designed to execute machine tending, circuit board testing and other precise tasks that have historically been impractical to automate with industrial robots. Sawyer is a significant addition to the Rethink Robotics family of smart, collaborative robots, which also includes the Baxter™ robot that defined the groundbreaking category of safe, interactive, affordable automation.



### Redefining Automation

Today, an estimated 90% of manufacturing tasks still can't be practically handled by traditional industrial automation\* – and many companies have outsourced labor to low-cost regions to complete those tasks. But as labor rates rise, and availability falls, manufacturers struggle to find cost effective ways of keeping up with quickly changing consumer demands.

Sawyer, the latest smart, collaborative robot from Rethink Robotics, gives manufacturers the high performance automation needed for precision tasks, while maintaining the crucial flexibility, safety and interactive user experience that have become synonymous with our brand. Our robots adapt to real-world variability, are agile enough to change applications quickly, and perform tasks like humans do.

\*Source: Boston Consulting Group

# High Performance Collaborative Robot

Weighing only 19 kg (42 lbs), Sawyer features 7 degrees of freedom with a 1+ meter reach that can maneuver into the tight spaces and varied alignments of work cells designed for humans. Its compliant motion control allows it to “feel” its way into fixtures or machines, even when part position changes. This enables an adaptive precision that is unique in the robotics industry and allows Sawyer to work effectively in semi-structured environments, while operating safely next to human co-workers.

Sawyer offers an embedded vision system, with a head camera for a wide field of view and a Cognex camera in its wrist that will enable the Robot Positioning System for dynamic re-orientation, and over time will support more advanced features that are inherent to the Cognex system. The robot runs on the Itera software platform, enabling fast and easy training, implementation and redeployment as needed to meet rapidly changing production requirements.



7 degree of freedom arm with 1026mm reach



Embedded vision with Cognex camera

## Part of the Rethink Robotics Family of Smart, Collaborative Robots

- “Feels” its way into fixtures and machines and fits into existing work cells
- Works like humans do to dynamically manage semi-structured environments and adapt to real-world conditions
- Trained easily, implemented quickly and redeployed as needed
- Ideally suited for machine tending, circuit board testing and other high precision jobs

## Coming Soon to a Plant Near You

Sawyer will retail for a base price of \$29,000, and will initially be available in North America, Europe, China and Japan. It will be released with limited availability in the summer of 2015, with general customer availability targeted for later in the year. For more information and the latest videos, visit [rethinkrobotics.com](http://rethinkrobotics.com).

### Basic Specifications\*

Weight (without pedestal)	19 kg (42 lbs.)
Degrees of Freedom	7
Reach	1026 mm
Payload	4 kg (8.8 lbs.)
Target Applications	Machine tending, circuit board testing, material handling
Safety by Inherent Design	Power and force limited compliant arm with series elastic actuators and embedded sensors

Embedded Vision	Cognex camera in wrist, wide view camera in head
Embedded Force Sensing	High resolution force sensors embedded at each joint, standard
IP Classification	IP54 rating
Power Requirement	Standard power outlet
Price	\$29,000 USD base price

\*Preliminary specifications. A complete list of performance specifications will be available in mid-2015.



[rethinkrobotics.com](http://rethinkrobotics.com)

27 Wormwood Street  
Boston, MA 02210  
Telephone: (617) 500-2487  
[info@rethinkrobotics.com](mailto:info@rethinkrobotics.com)



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