

Rethink Robotics® meets
German Engineering



More durable. Quieter. Higher-quality.

The new Sawyer BLACK Edition

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One year after the acquisition by the Rethink Robotics GmbH, the hardware of cobot Sawyer has reached a new level of quality thanks to German engineering. This makes the Sawyer BLACK Edition a high-performing cobot to support your production.



Sawyer

The high performer for precision tasks

Sawyer continues to serve in the BLACK edition as the easy to use, flexible and highly accepted collaborative robot.

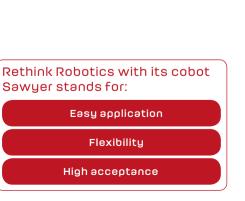
With Sawyer BLACK Edition, processes that could not simply be automated with industrial robots in the past can be automated quickly and easily - like for example machine loading, circuit board tests, and other dangerous, dirty, and dull tasks.

Sawyer comes as a complete solution, including the Intera software and two integrated embedded vision systems.

Flexibility

High acceptance

Sawyer stands for:





Train by Demonstration: Easy application

The Intera software gives Sawyer its unique user interface: The robot can be trained for new tasks by guiding its arm freely and demonstrating the movements of the procedure. The arm is operated with the use of integrated buttons. This allows the direct input of settings and functions. The robot is up and running to perform a task within a matter of minutes. No other cobot becomes productive in such a short period of time, which leads to a rapid ROI.

Embedded Vision: Flexibility

Sawyer's embedded vision system – along with the Intera software – allows the robot's positioning system to provide for a dynamic and flexible reorientation and adjustment to the environment. In combination with the easy-to-set landmarks, Sawyer can quickly be deployed in various positions, adapt after being relocated, and promote a rapid and flexible operational readiness. This enables a wide variety of applications without requiring additional hardware, software, or integration.

Force Sensing: High acceptance

Sawyer permanently controls its joint torque and position simultaneously. By monitoring both variables, Sawyer controls and feels the amount of force it applies in different directions, the same way people do when performing tasks, without the need to add sensors or additional hardware. The animated eyes, combined with more silent operation, make Sawyer BLACK Edition even more popular among employees.





Click Smart

The clever gripping system

Cobot Sawyer can be deployed with various gripping systems in numerous application areas. Click Smart makes replacing the gripper kits easier and more comfortable. With a bayonet fastening, the grippers can be replaced within seconds without using any tools. Information on products and programs are stored. Sawyer thus recognizes the gripper kits immediately and loads the according programs and processes. This returns Sawyer ready for operation instantly after changing the gripping system.



Intera

Software that connects, controls and coordinates

Intera is a high performing software control platform. The software is the basis for an immediate operational readiness of collaborative robots within simple and complex tasks along the production and supply chain.

The intuitive software provides a clever and flexible interface to Sawyer, can be controlled through the screen and can be operated by employees without any programming experience. Therefore, reducing integration time and the cost of deployment.

Intera also serves as a central controller for other devices interacting with the robot, allowing you to train the entire work cell from a single location. When the entire work cell is controlled through Intera, data collection, aggregation, and analysis will lead to better decision making — paving the way for fully integrated llot.

With the ability to connect and coordinate a work cell, Rethink Robotics' Sawyer and Intera are bringing a new level of collaborative technology to the factory floor. The vision for a fully IIoT enabled smart factory is based on a series of steps toward automating and digitalizing

specific work cells. Thus begins the journey towards smart factory with the Intera software of Rethink Robotics.



Advantages of Intera

- High sensitivity force behaviors and adaptive decisions
- Quick training and easy integration
- Dynamic registration through embedded cameras

Technical details

Target Applications in areas such as:

- CNC machining
- PCB handling and ICT
- Metal fabrication
- Molding operations
- Packaging
- Line Loading and unloading
- Test and inspection

The Complete Robot Solution:

- Sawyer BLACK Edition for more precision, durability, and even more silent operation.
- Intera software best-in-class Robot Operating Platform
- Embedded Cognex cameras
- Robot Positioning System dynamic reorientation using embedded cameras
- ClickSmart gripper kits
- Global support with service hubs in Asia, Europe and USA

Basic Specifications	
Max Reach	1260 mm
Typical Tool Speed	1.5 m/s
Degrees of Freedom	7
Operating Temerature	5° C - 40° C, 80 % relative humidity
Joint Ranges	J0 - J3 = 350° J4 - J5 = 340° J6 = 540°
Payload	4 kg
Power Requirements	100-240 V AC, 47-63 Hz, 4A Məx
I/O Ports (Controller)	8 digital in / 8 digital out
Communication	Modbus TCP, TCP/IP
IP Class	54
Collaborative Standards	ISO 10218-1 :2011
I/O End of Arm	4 digital in / 2 digital out / 2 analog in / 24 V DC 2A, ClickSmart plate required



With the acquisition of Rethink Robotics' assets by the HAHN Group in October 2018, Rethink Robotics meets German engineering. One year after the acquisition. Rethink Robotics introduces the Sawyer BLACK Edition. Based on the experience and know-how of one of the leading companies in the field of industrial automation and robotics, the hardware has been revised and improved. The BLACK edition of cobot Sawyer now works quieter with more durable and higher-quality hardware. The mission remains the same: By providing the reliable and safe cobot Sawyer in combination with the software Intera, manufacturers will achieve greater productivity and with that Rethink Robotics GmbH will help manufacturers around the world automate more than ever before.

The HAHN Group consists of a network of specialized companies for industrial automation and robotic solutions. With its own production sites in Austria, China, Czech Republic, Croatia, Germany, Great Britain, India, Israel, Mexico, Switzerland, Sweden, Turkey, and the USA, the group currently has approx. 1,400 employees at 24 locations. Well-known customers from the automotive, consumer goods, electronics, medical technology, and healthcare industries benefit from the HAHN Group's 30 years of expertise and automation know-how. For more information, visit www.hahn.group

























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