

Collaborative Robot - Company Evaluation Report, 2025

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Abstracts

The Collaborative Robot Companies Quadrant is a comprehensive industry analysis that provides valuable insights into the global market for Collaborative Robot. This quadrant offers a detailed evaluation of key market players, technological advancements, product innovations, and emerging trends shaping the industry. MarketsandMarkets 360 Quadrants evaluated over 120 companies, of which the Top 17 Collaborative Robot Companies were categorized and recognized as the quadrant leaders.

Collaborative industrial robots, which work alongside human operators in industrial environments, are categorized by the International Federation of Robotics (IFR) into two distinct groups based on their collaborative design. The first group includes robots that comply with ISO 10218-1, an international standard specifying safety requirements for the design, protective measures, and usage guidelines of industrial robots intended for collaborative applications. The second group consists of robots designed for collaborative use but not certified under ISO 10218-1. These robots may follow alternative safety frameworks, such as national or proprietary (in-house) standards, while still maintaining safe operational performance.

It's important to note that robots intended for human interaction outside industrial settings—such as in healthcare, food services, or public environments—are governed by separate ISO standards and are not included in the collaborative industrial robot data reported by the IFR.

The 360 Quadrant maps the Collaborative Robot companies based on criteria such as revenue, geographic presence, growth strategies, investments, and sales strategies for the market presence of the Collaborative Robot quadrant. The top criteria for product

footprint evaluation included by Payload (Less than 5 kg, 5–10 kg, 11–25 kg, More than 25 kg), Component (Hardware and Software), Industry (Automotive, Electronics, Metals & Machining, Plastics & Polymers, Food & Beverages, Furniture & Equipment, Healthcare, Logistics, Other Industries), Application (Handling, Assembling & Disassembling, Welding & Soldering, Dispensing, Processing, Other Applications).

Key Players:

Some of the prominent players are Universal Robots A/S (Denmark), FANUC Corporation (Japan), ABB (Switzerland), Techman Robot (Taiwan), KUKA AG (Germany), Doosan Robotics Inc. (South Korea), DENSO Corporation (Japan), YASKAWA ELECTRIC CORPORATION (Japan), AUBO (Beijing) Robotics Technology Co., Ltd. (China), and Rethink Robotics GmbH (Germany). Other players include Siasun Robot & Automation Co., Ltd. (China), Franka Emika GmbH (Germany), Comau S.p.A. (Italy), F&P Robotics AG (Switzerland), St?ubli International AG (Switzerland), Bosch Rexroth AG (Germany), Productive Robotics, LLC (US), NEURA Robotics GmbH (Germany), Elephant Robotics (China), Elite Robots (China), Kassow Robots (Denmark), Hanwa Corporation (South Korea), Omron Adept Technologies, Inc. (US), Wyzo (Switzerland), MIP Robotics (France), Kawasaki Heavy Industries, Ltd. (US), Dobot (China), JAKA Robotics (China), and Huling Tech (China). These players are increasingly focusing on product launches and enhancements, investments, partnerships, collaborations, joint ventures, funding, acquisitions, expansions, agreements, sales contracts, and alliances to strengthen their presence in the global market.

Top 3 Companies

FANUC Corporation

FANUC Corporation is a global leader in factory automation (FA), specializing in core technologies such as numerical controls (NCs), servo systems, and lasers, which are integrated into a broad array of robots and robomachines. The company leverages IoT and AI technologies across its product lines—FA, Robots, and Robomachines—to enhance operational efficiency and utilization for its customers. FANUC's product portfolio includes CNC systems, industrial and collaborative robots, servo motors, lasers, and various specialized applications. Its robomachine lineup features the ROBODRILL (compact machining center), ROBOCUT (wire EDM), and ROBOSHOT (electric injection molding machine), offering comprehensive manufacturing automation solutions.

Doosan Robotics Inc.

Doosan Robotics Inc., a subsidiary of the South Korea-based Doosan Group, focuses exclusively on the design and production of collaborative robots. Headquartered in South Korea, the company houses an R&D center, innovation lab, and prototyping facility. Doosan Group, a Fortune Global 500 company established in 1896, operates 36 subsidiaries globally.

Doosan Robotics benefits from the group's extensive internal resources, incorporating precision machining and control technologies from its machine tools business, engineering expertise from its construction and industrial vehicle units, and robotic design capabilities from SD Mecatec, a domestic Cartesian robot manufacturer. In 2018, the company launched the M Series of collaborative robots, which includes four models differentiated by payload capacity and arm reach.

Stäubli International AG

Stäubli International AG is a Swiss mechatronics solutions provider with operations spanning four divisions: Electrical Connectors, Fluid Connectors, Robotics, and Textile. The Robotics division offers a wide range of automation solutions, including industrial robots, mobile robots, AGV forklifts, collaborative robots (cobots), AGV platforms, and digital systems.

Stäubli serves diverse industries such as renewable energy, power distribution, industrial machinery, e-mobility, aerospace, medical devices, logistics, welding automation, and railway systems. The company entered the robotics space with the acquisition of Unimation Inc. (U.S.) in 1989, followed by the acquisition of Bosch Rexroth's robot division in 2004, which introduced its 4-axis SCARA robots. Its TX2touch POWER series of collaborative robots are unique in their ability to use NSF H1 food-grade oil without sacrificing performance. Equipped with in-house developed JCS gearboxes, these cobots offer extended durability and minimal maintenance. With payload capacities ranging from 2 to 25 kg, they feature a touch-sensitive safety skin and are the only collaborative robots on the market certified to the SIL3/PLe safety standard. The CS9 controller provides advanced control and safety functionality. In 2018, Stäubli further strengthened its capabilities in autonomous solutions with the acquisition of WFT GmbH & Co. KG (Germany), enabling the integration of cobots with AGVs.

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