

## **Collaborative Robot - Market Share Analysis, Industry Trends & Statistics, Growth Forecasts (2026 - 2031)**

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### **Report description:**

Collaborative Robot Market Analysis

The Collaborative Robot Market was valued at USD 1.9 billion in 2025 and estimated to grow from USD 2.28 billion in 2026 to reach USD 5.72 billion by 2031, at a CAGR of 20.15% during the forecast period (2026-2031).

Demand accelerates as updated ISO/TS 15066 standards clarify safety requirements, tax incentives lower payback periods, and labor shortages raise the urgency of flexible automation. Manufacturers increasingly deploy cobots to lift productivity rather than replace workers, while maturing software and simplified programming shorten deployment cycles. Growing payload capacities, warehouse automation needs, and widening service-sector use cases strengthen adoption momentum across global value chains.

Global Collaborative Robot Market Trends and Insights

Cost-effective Redeployment in High-mix Manufacturing

European and North American factories now rotate cobots across assembly cells within a single shift, cutting changeover from weeks to hours. This agility lets automotive suppliers accept smaller, high-margin orders while retaining automation gains.

OEM Push Toward Plug-and-Play Cobots for SMEs

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New controllers, capped wiring, and pre-loaded task libraries allow small manufacturers to install cobots without specialist integrators. Universal Robots' UR-series refresh shows how cycle-time gains and intuitive hand-guiding shrink total cost of ownership, opening the collaborative robot market to thousands of first-time users

#### Integration Bottlenecks with Brownfield PLC Architectures

Legacy PLCs often lack real-time Ethernet or safe-motion channels, forcing costly controller upgrades when cobots are added to decades-old lines . The expense pushes some automotive plants to defer adoption until full line overhauls.

Other drivers and restraints analyzed in the detailed report include:

Rapid E-commerce Fulfillment Drives Warehouse Cobots  
ISO/TS 15066 Updates Easing Liability Concerns  
Payload-Speed Trade-offs  
Limiting Heavy-duty Tasks

For complete list of drivers and restraints, kindly check the Table Of Contents.

#### Segment Analysis

Sub-5 kg models controlled 52.40% of the collaborative robot market in 2025, largely in electronics and medical device assembly where precision is paramount. The 10-20 kg band, however, is pacing a 22.95% CAGR, signaling rising interest in palletizing, machine tending, and automotive sub-assembly. Mid-range units also integrate longer reaches, enabling line-side work without moving humans to new safety zones. Heavy-duty (>20 kg) cobots remain niche but prove valuable in paint and chemical environments where explosion-proof certification is essential. As robot makers refine dynamic torque sensing, the collaborative robot market size for mid-payloads is projected to outgrow light units after 2028.

Within 5-9 kg, vendors package vision and AI for pick-and-place cycles under one second, catering to semiconductor back-end operations. The shift reflects buyers' search for units that bridge dexterity and strength, reducing fleet complexity. Manufacturers leveraging the collaborative robot market gain the option to standardize grippers and controllers across payload classes, simplifying spare-parts management and operator training.

Hardware generated 71.35% of revenue in 2025, yet software is advancing 27.15% annually as users emphasize intelligence over mechanics. Vision-guided path planning, fleet orchestration, and predictive maintenance modules convert one-time hardware sales into recurring licenses, moving vendor profit pools toward digital services. Cobots now ship with ROS-compatible APIs and cloud connectors, allowing quick app integrations.

Growth in consulting and lifecycle services reflects SME reliance on external expertise. Vendors bundle safety assessment, programming, and operator up-skilling into subscription models, further enlarging the collaborative robot market. Over time, software-defined payload upgrades may lower replacement cycles, letting plant managers keep frames in service longer while lifting performance through firmware enhancements.

Collaborative Robots Market Report is Segmented Into by Payload (Less Than 5Kg, 5-9 Kg, 10-20 Kg, More Than 20 KG), Component (Hardware and More), Application (Material Handling, Pick and Place and More), End-User Industry (Electronics, Automotive, and More), Programming Method (Hand-Guiding and More), and Geography. The Market Forecasts are Provided in Terms of Value (USD).

#### Geography Analysis

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Asia generated 40.55% of 2025 revenue, propelled by China's 1-trillion-yuan robotics push under the 14th Five-Year Plan and Japan's Society 5.0 roadmap that blends AI, IoT, and next-generation automation. Chinese electronics and battery plants install cobots for precision gluing and cell stacking, while Japanese hospitals test service robots for elder care. South Korea's Fourth Intelligent Robot Basic Plan funds local SMEs to adopt collaborative solutions, reinforcing domestic supply chains.

North America ranks second. U.S. reshoring incentives combined with record labor scarcity elevate the market. Semiconductor fabs subsidized by the CHIPS Act integrate dual-arm cobots for wafer loading, shrinking transport contamination risk. Canadian auto parts suppliers adopt mid-payload units for die-casting part finishing, while Mexican maquiladoras deploy cobots to balance wage inflation with export competitiveness. Cross-border standardization allows integrators to reuse cell designs, accelerating rollout.

Europe shows robust uptake led by Germany's Industrie 4.0 lighthouse projects linking MES data to cobot fleets. Horizon Europe grants finance human-machine interface research, spurring startups in Denmark and Italy that build AI motion-planning stacks. French aerospace plants choose cobots for carbon-fiber trimming, citing weight reduction and ergonomic gains. Rising energy costs push factories toward leaner layouts where cobots save floor space relative to fenced robots. Environmental regulations also favor cobots' lower idle power draw compared with hydraulic presses, aiding the collaborative robot market size in sustainability-conscious regions.

List of Companies Covered in this Report:

Universal Robots AS FANUC Corp. ABB Ltd. KUKA AG Yaskawa Electric Corp. Techman Robot Inc. Doosan Robotics Inc. AUBO Robotics Kawasaki Heavy Industries Ltd. Omron Corporation Epson Robots Precise Automation Inc. Staubli International AG Hanwha Robotics Denso Wave Inc. Comau SpA Hyundai Robotics Festo SE and Co. KG

Additional Benefits:

The market estimate (ME) sheet in Excel format  
3 months of analyst support

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