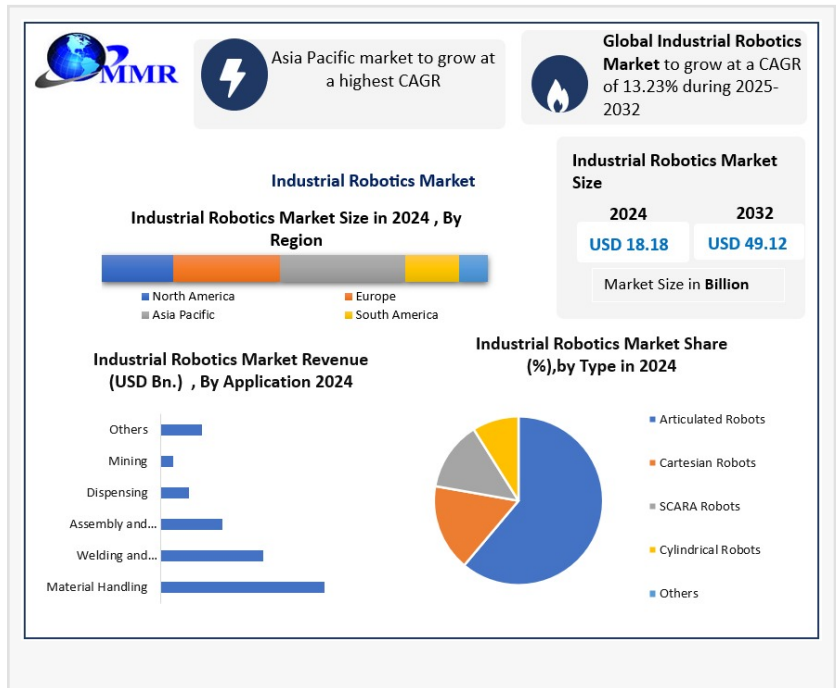


Industrial Robotics Market: \$49.12B by 2032 AI, Automation & Smart Manufacturing Trends

By type, articulated robots dominate the industrial robotics market owing to their flexibility and wide range of applications.

WILMINGTON, DE, UNITED STATES, October 10, 2025 /EINPresswire.com/ -- [Industrial Robotics Market](#) size was valued at USD 18.18 Billion in 2024 and is projected to reach USD 49.12 Billion by 2032, growing at a CAGR of 13.23% during the forecast period (2025–2032).

Global Industrial Robotics Market Overview 2025–2032: AI-Powered Industrial Robots, IoT-Enabled Automation, Cobots, and Smart Manufacturing Driving Growth and Innovation



“

AI-powered automation, IoT-enabled industrial robots, and rising demand for precision are driving Industrial Robotics Market growth, transforming smart manufacturing globally.

”

Dharti Raut

Global Industrial Robotics Market is transforming smart manufacturing, automation, and AI-driven industrial operations with IoT-enabled industrial robots, cobots, and next-generation robotics technologies. Rapid adoption across automotive, electronics, and emerging sectors, alongside strategic government initiatives and advanced R&D from key players like FANUC, ABB, and KUKA, is driving Industrial Robotics Market growth, innovation, efficiency, and precision, reshaping global industrial automation trends and creating unprecedented opportunities worldwide.

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Industrial Robotics Market Drivers: Key Trends, Growth Factors, and AI-Powered Automation Transforming Global Smart Manufacturing

Global Industrial Robotics Market is revolutionizing automation and smart manufacturing with AI-powered industrial robots, IoT-driven innovations, and cutting-edge robotics technologies. Rising labor costs, rapid R&D investments, and increasing demand for precision and efficiency are transforming industries worldwide. Discover how these industrial robotics market trends are redefining productivity, operational efficiency, and the future of intelligent manufacturing.

Industrial Robotics Market Restraints: High Initial Investment, Installation, and Integration Costs Limiting Global Automation and Smart Manufacturing Growth

Global Industrial Robotics Market faces challenges from high initial investment, installation, and integration costs, which limit adoption across SMEs and cost-sensitive regions. The deployment of advanced industrial robotics hardware and software solutions increases expenses, impacting global Industrial Robotics Market growth trends. Learn how companies are innovating to overcome financial barriers and accelerate automation, AI-driven manufacturing, and industrial robotics adoption.

Industrial Robotics Market Opportunities: Emerging Sectors, Government Initiatives, AI, IoT, and Smart Manufacturing Driving Global Market Growth (2025–2032 Forecast)

Global Industrial Robotics Market is seizing new growth opportunities as adoption expands beyond automotive and manufacturing sectors into food & beverage, aerospace, chemicals, metals, and electronics. Rapid industrialization and supportive government initiatives in emerging economies, such as India’s Robotics 2.0 under Make in India and Japan’s Robot Revolution Initiative, are driving smart manufacturing, automation, and industrial robotics market growth during the 2025–2032 forecast period.

Global Industrial Robotics Market Segmentation: Key Robot Types, Payloads, Functions, and End-Users Driving Global Market Growth, Trends, and Forecast (2025–2032)

Global Industrial Robotics Market Segments Covered	
By Type	Articulated Cartesian SCARA Cylindrical Others
By Payload	<16 Kg 16-60 Kg 60-225 Kg >225 Kg
By Function	Material Handling Welding & Soldering Assembly & Disassembly Dispensing Processing Cleanrooms Others
By End-User	Automotive Electrical and Electronics Chemical Rubber and Plastics Manufacturing Food and Beverages Others
By Region	North America (United States, Canada and Mexico) Europe (UK, France, Germany, Italy, Spain, Sweden, Austria, Turkey, Russia and Rest of Europe) Asia Pacific (China, India, Japan, South Korea, Australia, ASEAN (Indonesia, Malaysia, Myanmar, Philippines, Singapore, Thailand, Viet Nam etc.) and Rest APAC) Middle East and Africa (South Africa, GCC, Egypt, Nigeria and Rest of ME&A) South America (Brazil, Argentina, Colombia and Rest of South America)

Global Industrial Robotics Market is strategically segmented by type, payload, function, and end-user, with articulated robots, material handling applications, and the automotive sector leading adoption. Rising demand for AI-powered industrial robots, IoT-enabled automation, and smart manufacturing solutions is reshaping production lines worldwide. Explore how these Industrial Robotics Market trends, growth opportunities, and forecast (2025–2032) are driving efficiency, precision, and innovation across industries globally.

Industrial Robotics Market Key Trends: AI-Powered Autonomous Robots, IoT-Enabled Platforms, Humanoid Robotics, and Smart Manufacturing Driving Global Market Growth

Global Industrial Robotics Market is witnessing rapid adoption of AI-powered autonomous industrial robots and modular robotics platforms, enabling multi-task operations, energy efficiency, and adaptability across industries. These innovations are transforming global smart manufacturing trends, enhancing precision, productivity, and operational efficiency in the industrial robotics sector.

Increasing investments in humanoid and task-specific industrial robots, including projects like Kawasaki's AI-based robotic horse and the K-Humanoid Alliance, are expanding collaboration among governments, academia, and industry. This trend is accelerating Industrial Robotics Market innovation and enabling humanlike, intelligent robotic applications worldwide.

Convergence of IoT, cloud computing, and industrial robotics is enabling real-time data analytics, remote monitoring, and predictive maintenance. This integration is driving Industrial Robotics Market growth, unlocking new opportunities in AI-driven automation, smart factories, and next-generation industrial robotics solutions.

Industrial Robotics Market Key Developments: AI-Powered Robots, OBniCore Platform, Humanoid and Bionic Robotics Driving Global Smart Manufacturing Growth

In November 2024, FANUC America unveiled the M-950iA industrial robot, capable of lifting up to 500 kg payloads with unmatched precision and reliability. Designed for applications in automotive, EV battery handling, and heavy material logistics, this launch highlights innovation in high-capacity industrial robotics solutions, driving Industrial Robotics Market growth and smart manufacturing trends globally.

In May 2025, ABB Robotics organized its inaugural global RoboCup in Europe, engaging student teams from five nations. This initiative reinforces ABB's commitment to industrial robotics education, talent development, and global robotics innovation, fostering the next generation of AI-enabled and autonomous industrial robots and boosting Industrial Robotics Market adoption worldwide.

In June 2024, ABB launched OBniCore, a modular, intelligent automation architecture integrating AI, sensors, cloud, and edge computing. The platform enables autonomous, sustainable, and

next-generation industrial robotics applications, driving Industrial Robotics Market growth, IoT-enabled smart manufacturing, and global automation efficiency.

In April 2025, Kawasaki revealed Corleo, a quadruped robotic horse prototype for future all-terrain mobility. This concept exemplifies the Industrial Robotics Market's evolution towards bionic, task-specific, and humanoid robotics, highlighting innovative industrial robotics applications and the future of autonomous mobility and smart manufacturing solutions.

Industrial Robotics Market Regional Insights 2025–2032: Asia-Pacific Leads Growth, Europe Accelerates AI-Powered, IoT-Enabled Smart Factory Adoption

Asia-Pacific Industrial Robotics Market leads global growth, driven by automotive and electronics manufacturing, AI-powered industrial robots, and IoT-enabled smart factories. Government initiatives like Robotics 2.0 and Japan's Robot Revolution accelerate adoption, while local and global robotics leaders innovate, reshaping industrial automation trends, productivity, and Industrial Robotics Market expansion worldwide.

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European Industrial Robotics Market ranks second globally, fueled by automotive and electronics manufacturing, Industry 4.0 adoption, and smart factory innovations. Government initiatives and advanced R&D from leaders like ABB and KUKA accelerate AI-powered, IoT-enabled industrial robotics adoption, transforming industrial automation trends, operational efficiency, and Industrial Robotics Market growth across Europe.

Industrial Robotics Market, Key Players

North America

Omron Corporation / Adept Technologies (Japan / U.S.)

Europe

ABB (Switzerland)

KUKA AG (Germany)

Stäubli Robotics (Switzerland)

Universal Robots (Denmark)

Dürr Group (Germany)

Comau S.p.A. (Italy)

Krones AG (Germany)

Asia-Pacific

FANUC Corporation (Japan)
Yaskawa Electric Corporation (Japan)
Mitsubishi Electric Corporation (Japan)
Denso Corporation (Japan)
Kawasaki Heavy Industries (Japan)
Daihen Corporation (Japan)
Doosan Robotics (South Korea)
Inovance Technology ((China)
Siasun Robot & Automation ((China)
Hanwha Robotics (South Korea)
Yamaha Robotics (Japan)

FAQs:

What is the current size and forecast of the Industrial Robotics Market?

Ans: Global Industrial Robotics Market was valued at USD 18.18 Billion in 2024 and is projected to reach USD 49.12 Billion by 2032, growing at a CAGR of 13.23%, driven by AI-powered industrial robots, IoT-enabled automation, and smart manufacturing solutions.

Which regions dominate the Industrial Robotics Market?

Ans: Asia-Pacific Industrial Robotics Market leads global growth due to automotive, electronics manufacturing, AI-powered industrial robots, and government initiatives, while the European Industrial Robotics Market ranks second, fueled by Industry 4.0 adoption, smart factory innovations, and AI-enabled robotics solutions.

What are the key trends and innovations in the Industrial Robotics Market?

Ans: Global Industrial Robotics Market is evolving with AI-powered autonomous robots, IoT-enabled industrial robotics platforms, humanoid and bionic robotics, OBniCore modular control systems, and smart manufacturing solutions, enhancing global productivity, operational efficiency, and next-generation industrial automation.

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Analyst Perspective:

Industry experts observe that the Global Industrial Robotics Market is rapidly advancing, fueled by AI-powered industrial robots, IoT-enabled smart factories, and next-generation robotics innovations. Adoption across automotive, electronics, and emerging sectors highlights strong growth potential, while global competitors such as FANUC, ABB, and KUKA continue strategic investments, driving Industrial Robotics Market innovation, operational efficiency, and global automation trends.

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