

# Industrial Robotic Motors Market is to Soar to USD 5.98 Billion by 2035, Aimd by Industry 4.0 & Smart Factory Deployment

*Industrial Robotic Motors Market is growing as Industry 4.0 drives demand for smart automation, precision, & efficiency in dynamic manufacturing settings*

NEWARK, DE, UNITED STATES, April 22, 2025 /EINPresswire.com/ -- The global [Industrial Robotic Motors Market](#) is poised for exponential growth, forecasted to reach USD 5.98 billion by 2035, up from USD 1.56 billion in 2025, reflecting a robust CAGR of 14% during the forecast period. The surge is primarily driven by the ongoing shift towards Industry 4.0, where automation, connectivity, and data-driven decision-making are becoming the cornerstone of modern manufacturing.

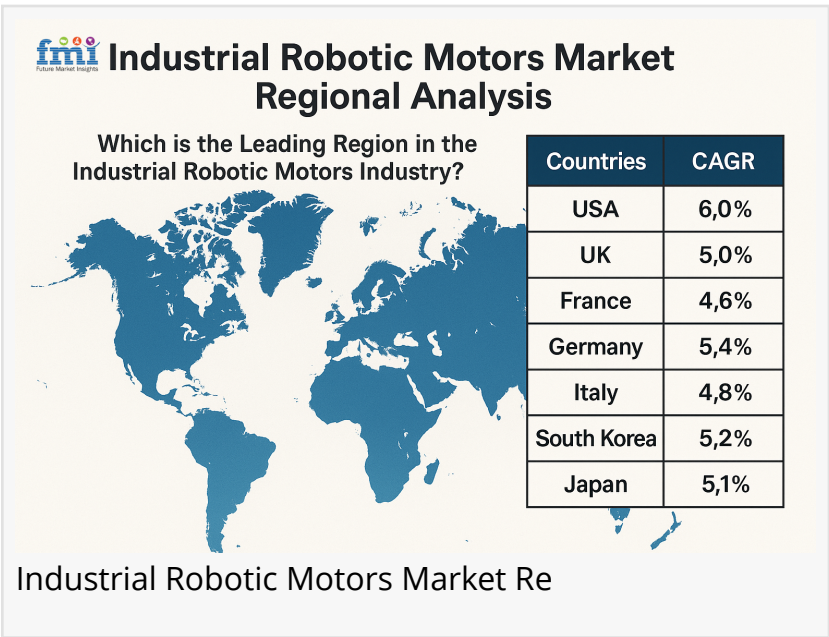


The Industrial Robotic Motors Market is experiencing a paradigm shift as manufacturers across the globe embrace intelligent automation to meet the demands of dynamic production environments. These motors are integral components of robotic systems, empowering them to perform precise, repetitive, and hazardous tasks with minimal human intervention. The integration of advanced motors in robots not only enhances throughput but also ensures consistency and safety on the shop floor.

Industry 4.0 initiatives characterized by interconnected systems, cyber-physical integration, and real-time data are creating fertile ground for industrial robotics. Motors used in robotic arms, CNC machines, and automated welding systems are vital in achieving high-performance standards across diverse industrial applications.

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Sectors such as automotive, electronics, and aerospace have emerged as frontrunners in adopting robotic systems. In these industries, robotic motors contribute to improved assembly accuracy, cost-effective production, and reduced exposure to occupational hazards.



Furthermore, with labor shortages and the need for cost-effective operations, industrial robotic motors are becoming indispensable in creating agile manufacturing environments capable of fast product changeovers and scalable output.

“As Industry 4.0 advances, robotic motors are key to enabling smart, precise, and efficient manufacturing, driving flexibility and transformation across global industries,” opines Nikhil Kaitwade, Associate Vice President at FMI

Future Market Insights (FMI) is a leading market research and consulting firm, providing comprehensive market insights and analysis. This comprehensive market study provides in-depth insights into:

- Market sizing and growth projections from 2025 to 2035
- Regional and segment-level analysis
- Key industry trends, drivers, and challenges
- Company profiles and strategic developments
- Technology roadmaps and competitive landscape
- Investment opportunities and regulatory overview

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The industrial robotic motors market is being reshaped by increasing automation, evolving safety standards, and growing demand for flexible and intelligent manufacturing systems.

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Across the manufacturing landscape, the growing appetite for automation is creating

unprecedented demand for robotic motors. From small-scale electronics producers to large-scale automotive assembly plants, automation is helping companies achieve higher throughput and consistent quality.

As manufacturers adopt AI-powered robotics and smart sensors, motors with integrated control systems are enabling precise movements and adaptive functioning in complex environments.

Industrial robotic motors market is projected to grow from USD 1.56 billion in 2025 to USD 5.98 billion by 2035, with a CAGR of 14%.

The global factory automation boom is a direct consequence of the demand for leaner, more productive operations. Motors used in robotic arms and pick-and-place units are central to this evolution.

With digital twin technologies and real-time monitoring systems gaining traction, robotic motors are becoming more advanced, allowing manufacturers to predict failures, reduce downtime, and optimize energy consumption.

For more insights, visit: <https://www.futuremarketinsights.com/reports/industrial-robotic-motors-market>

Key drivers include the increasing adoption of Industry 4.0, the need for precision in manufacturing, and the push for energy-efficient solutions.

The development of brushless DC motors, servo motors, and stepper motors with higher torque density and energy efficiency is revolutionizing industrial robotics. These innovations are enabling robots to operate in tighter spaces with greater accuracy.

Furthermore, integration of IoT and edge computing capabilities in motors is facilitating condition monitoring and predictive maintenance, thereby lowering operational risks and extending service life.

Key highlights:

- Market projected to grow from USD 1.56 billion (2025) to USD 5.98 billion (2035)
- CAGR of 14% between 2025–2035
- Automotive, electronics, and aerospace lead robotic motor adoption
- Technological advancements in motor design driving precision and efficiency
- Strong demand from North America, East Asia, and Western Europe
- Smart factories and digital manufacturing initiatives fueling market growth

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Smart factories are reshaping industrial landscapes, combining robotics, AI, and IoT to create highly automated, data-rich environments. In such settings, industrial robotic motors play a central role in enabling continuous, adaptable operations.

This transformation is being witnessed globally, with smart factory projects gaining momentum particularly in China, Germany, the U.S., and Japan, where governments and private sectors are investing heavily in next-gen manufacturing infrastructure.

Modern production demands precision and repeatability, pushing manufacturers to integrate robotic motors capable of ultra-fine movements and fast cycles. This is particularly evident in the semiconductor and electronics sectors, where tolerances are minimal.

Industrial robotic motors also help reduce human error and optimize material usage, delivering sustainable gains in quality and cost-effectiveness.

ABB Group – Pioneering in robotic motors and automation systems with global installations.

Nidec Corporation – Renowned for energy-efficient motor designs tailored for robotics.

- FAULHABER Group – Specialized in compact, high-performance motors for precision robotics.
- PMDM Group – Offering robust motor solutions for heavy-duty industrial robots.
- HDD – Innovator in direct drive motors for robotics and CNC applications.
- Aurotek Corporation – Focused on robotic integration and motorized solutions.
- Fanuc Corporation – Industry leader in CNC and robotic automation.
- Kawasaki Heavy Industries – Broad robotics portfolio with powerful motorized systems.
- Kollmorgen – Supplier of motion control solutions for industrial automation.
- Shenzhen Topband – Emerging player in smart motor technologies.
- Lin Engineering – Specialized in precision stepper motors for robotic use.

With Industry 4.0 adoption accelerating, robotic motors are witnessing a strong uptick in demand. Manufacturers are increasingly investing in scalable and intelligent automation solutions, transforming traditional factories into agile, tech-enabled powerhouses.

As innovation in motor design continues, the industrial robotic motors market is set to become a foundational pillar of the future manufacturing ecosystem.

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- North America: Strong growth driven by smart factory rollouts and high-tech manufacturing in the U.S.
- Latin America: Slow but steady adoption, with growing investments in automotive and electronics.
- Western Europe: Industry 4.0 frontrunner; Germany and France lead in smart robotics integration.
- Eastern Europe: Rising adoption fueled by EU-backed industrial upgrades.
- East Asia: China, Japan, and South Korea dominate, backed by government policies and tech innovation.
- South Asia & Pacific: India emerging as a promising market with increasing automation needs.
- Middle East & Africa: Early-stage adoption with pilot projects in oil & gas and logistics sectors.

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The segmentation is into Servo Motor, DC Motor, and Stepper Motor.

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The segmentation is into SCARA Robot, Delta Robot, Cartesian/Gantry Robot, Articulated Robot, Collaborative Robot, and Dual Arm Robot.

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The segmentation is into First Fit and Retro Fit.

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The segmentation is into North America, Latin America, Western Europe, Eastern Europe, South Asia and Pacific, East Asia, and Middle East and Africa.

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The global [gas detection equipment market sales](#) overall value is expected to rise from USD 3,801.1 million in 2024 to USD 6,801.6 million in 2034.

The [hydrogen electrolyzer market growth](#) is expected to reach USD 5,709.8 million by 2034. The

market is estimated to grow at a CAGR of 24.2%.

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