

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.

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INDUSTRIAL ROBOTIC MOTORS



Industrial Robotic Motors Market

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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<https://www.futuremarketinsights.com/report-sample#5245502d47422d313033335>

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.

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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*

Industrial Robotic Motors Market Regional Analysis

Which is the Leading Region in the Industrial Robotic Motors Industry?



Countries	CAGR
USA	6,0%
UK	5,0%
France	4,6%
Germany	5,4%
Italy	4,8%
South Korea	5,2%
Japan	5,1%

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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 robots, including articulated arms and mobile manipulators, are key components in automated assembly lines and welding operations.

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 information on the market: <https://www.futuremarketinsights.com/reports/industrial-robotic-motors-market>

Industrial robots, including articulated arms and mobile manipulators, are key components in automated assembly lines and welding operations.

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.

Industrial robots, including articulated arms and mobile manipulators, are key components in automated assembly lines and welding operations.

- 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

Industrial robots, including articulated arms and mobile manipulators, are key components in automated assembly lines and welding operations.

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.

智能工厂正在重塑工业景观，结合机器人技术、人工智能和物联网，创造高度自动化、数据丰富的环境。在这样的设置中，工业机器人电机在实现连续、可适应的操作中发挥着核心作用。

现代生产需求精度和重复性，促使制造商在半导体和电子行业等领域集成能够实现超精细运动和快速周期的机器人电机。这在对公差要求极低的行业尤为明显。

工业机器人电机还帮助减少人为错误，优化材料使用，实现可持续的质量和成本效益。

智能工厂正在重塑工业景观，结合机器人技术、人工智能和物联网，创造高度自动化、数据丰富的环境。

- 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.

智能工厂正在重塑工业景观，结合机器人技术、人工智能和物联网，创造高度自动化、数据丰富的环境。

随着Industry 4.0的采用加速，机器人电机正在见证需求的强劲增长。制造商正在越来越多地投资于可扩展且智能的自动化解决方案，将传统的工厂转变为敏捷、技术驱动的巨头。

随着电机设计创新的持续，工业机器人电机市场有望成为未来制造业生态系统的核心支柱。

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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%.

Future Market Insights (FMI)

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