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Global Robots for Injection Molding Machine Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Robots for Injection Molding Machine market size is expected to reach $ 887 million by 2032, rising at a market growth of 4.0% CAGR during the forecast period (2026-2032).

Robots for Injection Molding Machine (Take-out robots) are highly specialized automation equipment designed to efficiently and precisely remove molded parts or runners from the mold cavity immediately after the injection process. These robots play a critical role in improving cycle time, yield rate, and overall production consistency. Product types are generally classified based on axis configuration and control systems, including single-axis, three-axis, five-axis, and multi-degree-of-freedom servo robots. Advanced models increasingly incorporate vision systems, AI algorithms, and adaptive gripping technologies to handle complex geometries and multi-product lines. Application fields span a wide range of industries such as consumer electronics (smartphone housings, laptop casings), automotive components (bumpers, interior parts, connectors), medical devices (syringes, surgical consumables), home appliances, optical lenses, and precision engineering parts. In high-precision sectors with strict cleanliness and dimensional requirements, take-out robots have become an indispensable part of fully automated injection molding production lines.

From the consumption perspective, China is currently the world's largest consumer market of Robots for Injection Molding Machine (Take-out robots), accounting for a 61.72% market share in 2025, followed by Europe and Japan with 13.11% and 6.79% respectively. It is expected that in the coming years, regions such as India and Southeast Asia will maintain the fastest growth, with their respective CAGRs reaching approximately 4.54% and 4.49% during the period of 2026-2032.

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From the production perspective, China, Japan and Europe are the three major manufacturing regions, holding 49.9%, 24.8% and 20.0% of the market share in 2025 respectively. It is projected that China-manufactured robots will still register the fastest growth in the next few years.

In terms of manufacturers, the core global players in the Robots for Injection Molding Machine (Take-out robots) market mainly include Yushin Company, Alfa Industrial, Star Seiki, Wittmann, Topstar, ENGEL AUSTRIA GmbH and Haitian International, among others. The world's top five manufacturers in aggregate held a 49.47% market share in 2025.

The current development status of the global Take-out Robots industry (including special robots for injection molding machines, part removal robots, linear robots, high-speed side-entry robots, etc.) can be summarized as: 'sustained rise in automation penetration, upgrading of product structure towards servo-driven and cell-based solutions, and parallel competition between injection molding machine OEMs and professional automation manufacturers'. On the one hand, the robotization of the macro manufacturing industry remains at a high level: statistics from the International Federation of Robotics (IFR) show that the annual new installations of industrial robots worldwide reached approximately 542,000 units in 2024, maintaining a level of over 500,000 units for consecutive years, with Asia accounting for the largest share. This provides a sustained capital expenditure backdrop for the automation of 'on-machine part removal - transfer - post-process line connection' in injection molding workshops. On the other hand, the collaboration between injection molding machines and robots is evolving from 'signal interlocking' to 'data interface + control coordination'. EUROMAP 79 explicitly defines the data exchange interface (OPC UA information model) between injection molding machines (IMM) and robots, reflecting that the industry is adopting standardized interconnection to reduce cross-brand integration costs and improve cell delivery efficiency. In terms of competitive landscape, injection molding machine OEMs such as ENGEL and ARBURG place greater emphasis on the system delivery of 'injection molding machines + automation + processes/data'; in contrast, professional automation manufacturers including Sepro, Wittmann, Yushin Company, Star Seiki, as well as leading domestic and regional Chinese manufacturers, participate in market share competition through more flexible model coverage and localized services. Overall, the market presents a parallel pattern where international brands dominate high-end system solutions, while domestic/regional brands are accelerating their penetration in the large-scale popularization and cost-effective segments.

The main line of industry trends and demand-side drivers is: 'upgrading from single-

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machine part removal to standardized work cells, with three differentiated upgrading routes of high speed, clean production and flexibility emerging for different application scenarios'. For fast-cycle scenarios such as packaging and thin-wall molding, the focus is on high-speed side-entry and high-speed top-entry robots (the core goal is to shorten mold opening waiting time and part removal paths); for the production of large and structural parts for the automotive and home appliance industries, heavy-load and long-stroke top-entry Cartesian robots are preferred (with 5-axis, dual-arm and composite end-effectors enabling stacking, sorting, inspection docking and assembly); for the 3C and medical industries, greater attention is paid to cleanliness, scratch-resistant surface finish, traceability and in-line inspection, thus driving up the supporting demand for high-precision servo control, as well as integrated vision, weighing, barcode scanning and data collection systems. In line with this trend, industry-wide interconnection standards (e.g., EUROMAP 79) are transforming robots from a single executive device into production nodes manageable by MES/ production line platforms, pushing suppliers to increase the proportion of investment in software, data, remote diagnosis and quick changeover (fixture quick change/ recipe-based parameter setting). At the same time, the high automation density in Asia, especially East Asia, is enhancing demand resilience. For example, South Korea's official investment promotion agency disclosed that its manufacturing industry has one of the highest robot densities in the world. Such structural factors will continue to underpin the medium and long-term investment intensity in injection molding automation.

In terms of risks and policy environment, the key uncertainties facing the industry mainly include: fluctuations in downstream market prosperity and capital expenditure cycles (order fluctuations in the automotive, consumer electronics, home appliance and packaging industries will quickly transmit to the expansion and transformation pace of injection molding plants); price pressure and channel inventory risks caused by intensified competition (homogenization is more prominent in the mid-to-low end segment); supply and cost fluctuations of key components (changes in delivery lead times and prices of servo systems, control units, electrical components and precision transmission parts affect production delivery); and escalating compliance and cybersecurity requirements (covering equipment safety, functional safety, data interfaces and industrial cybersecurity). On the policy front, the EU’s Machinery Regulation (EU) 2023/1230 has been issued and will take effect on 20 January 2027. It imposes more systematic compliance and technical documentation requirements on robots and automation cells entering the EU market, which objectively raises the market access threshold for low-end products and increases manufacturers' compliance costs. South Korea provides financial support (including a high proportion of cost subsidies in official terms) for enterprises' digital and automation transformation through policies

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such as 'Smart Factory Construction Support', directly stimulating small and medium-sized manufacturing enterprises to adopt robots and automation equipment. In China, the guiding principles of the 14th Five-Year Plan for the Development of the Robot Industry emphasize high-end and intelligent development, expanding application scenarios and improving the industrial ecosystem, which provides a favorable policy environment and project opportunities for local injection molding robot manufacturers to deepen their domestic market penetration and upgrade to the mid-to-high end segments.

This report studies the global Robots for Injection Molding Machine production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Robots for Injection Molding Machine and provides market size (US$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Robots for Injection Molding Machine that contribute to its increasing demand across many markets.

Highlights and key features of the study
Global Robots for Injection Molding Machine total production and demand, 2021-2032, (K Units)
Global Robots for Injection Molding Machine total production value, 2021-2032, (USD Million)
Global Robots for Injection Molding Machine production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)
Global Robots for Injection Molding Machine consumption by region & country, CAGR, 2021-2032 & (K Units)
U.S. VS China: Robots for Injection Molding Machine domestic production, consumption, key domestic manufacturers and share
Global Robots for Injection Molding Machine production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)
Global Robots for Injection Molding Machine production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)
Global Robots for Injection Molding Machine production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Robots for Injection Molding Machine market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key

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companies covered as a part of this study include Yushin Company, Alfa Industrial, Star Seiki, Wittmann, Guangdong Topstar Technology, ENGEL AUSTRIA GmbH, Haitian International, Sepro, Welllih Robot, Guangdong Dingju Intelligent Technology Co., Ltd, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Robots for Injection Molding Machine market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US$ Millions), volume (production, consumption) & (K Units) and average price (US$/Unit) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Robots for Injection Molding Machine Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Robots for Injection Molding Machine Market, Segmentation by Type:

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Traverse Type Take-out Robots

Parallel Traverse Type Take-out Robots

Bullhead Type Take-out Robots

Others

Global Robots for Injection Molding Machine Market, Segmentation by Number of Axes:

3 Axis Robots for Injection Molding

5 Axis Robots for Injection Molding

Others

Global Robots for Injection Molding Machine Market, Segmentation by Application:

Automotive

3C Electronics

Medical

Packaging/General-Purpose Plastics

Home Appliance

Other Industries

Companies Profiled:

Yushin Company

Alfa Industrial

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Star Seiki

Wittmann

Guangdong Topstar Technology

ENGEL AUSTRIA GmbH

Haitian International

Sepro

Welllih Robot

Guangdong Dingju Intelligent Technology Co., Ltd

KEMANS

HARMO Co., Ltd.

Guangdong Bo Langte intelligent equipment

Guangdong Switek Technology Co.,Ltd.

Ivat Robotics Equipment Manufacturing

KraussMaffei

ARBURG GmbH

Sepro

Guangdong Heeexii Robot Technology

Wemo Automation

Wetec

Hanyang Robotics

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Key Questions Answered:

1. How big is the global Robots for Injection Molding Machine market?
2. What is the demand of the global Robots for Injection Molding Machine market?
3. What is the year over year growth of the global Robots for Injection Molding Machine market?
4. What is the production and production value of the global Robots for Injection Molding Machine market?
5. Who are the key producers in the global Robots for Injection Molding Machine market?
6. What are the growth factors driving the market demand?

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