

Smart Robots Market - Global Industry Size, Share, Trends, Opportunity, and Forecast Segmented By Component (Hardware and Software), By Mobility (Stationary and Mobile), By Application (Automotive, Manufacturing, Electrical & Electronics and Others), By Region, and Competition, 2020-2030F

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Report description:

Market Overview

The Global Smart Robots Market, valued at USD 6.37 Billion in 2024, is projected to experience a CAGR of 30.89% to reach USD 32.03 Billion by 2030. Smart robots are defined as AI-powered, often-mobile machines capable of autonomously executing physical tasks, leveraging machine learning to adapt and refine their operations based on environmental input and experience. The global smart robots market is primarily driven by the escalating demand for automation across diverse industries to enhance efficiency and productivity, coupled with persistent labor shortages and rising labor costs in numerous sectors.

Key Market Drivers

The global smart robots market is significantly influenced by advanced technological integration, particularly in artificial intelligence, machine learning, the Internet of Things, and sophisticated sensors. These technologies empower robots with greater autonomy, adaptive learning, and enhanced perception, enabling them to perform complex tasks with precision and flexibility across varied environments. This commitment to innovation is exemplified by Ecorobotix, which in October 2025, raised \$150 million across Series C and D rounds specifically for its Plant-by-Plant AI software, designed for precision agricultural spraying.

Key Market Challenges

The substantial initial investment required for deploying advanced robotic systems presents a significant challenging factor for the global smart robots market. This financial barrier directly impedes market penetration, particularly for small and medium-sized enterprises that often lack the significant capital necessary to acquire and integrate these complex technologies. The considerable upfront expenditure for hardware, software, and specialized installation services can deter potential adopters despite the long-term benefits of automation. This high cost directly restricts the pool of businesses able to invest, thereby slowing the

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overall expansion of the market.

Key Market Trends

Human-Robot Collaboration (Cobots) Expansion marks a pivotal market trend, promoting direct interaction between humans and robots in shared workspaces, enhancing operational flexibility. This collaboration optimizes task execution, blending human adaptability with robotic precision. According to the International Federation of Robotics, cobots constituted 10.5% of industrial robots installed globally in 2023, reflecting increasing integration. This rising adoption is exemplified by company performance; Universal Robots reported a Q4 2023 revenue of USD 103 million in February 2024, a 21% increase from Q4 2022, highlighting robust demand for these adaptable systems. Simplified programming and deployment contribute to their growing appeal across industries.

Key Market Players

- ABB Ltd
- iRobot Corporation
- Kuka Aktiengesellschaft
- Fanuc Corporation
- Yaskawa Electric Corporation
- Omron Electronics, LLC
- SGBI Inc.
- Kawasaki Heavy Industries, Ltd.

Report Scope:

In this report, the Global Smart Robots Market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

- Smart Robots Market, By Component:

- o Hardware
- o Software

- Smart Robots Market, By Mobility:

- o Stationary
- o Mobile

- Smart Robots Market, By Application:

- o Automotive
- o Manufacturing
- o Electrical & Electronics
- o Others

- Smart Robots Market, By Region:

- o North America
 - United States
 - Canada
 - Mexico
- o Europe
 - France
 - United Kingdom
 - Italy
 - Germany
 - Spain
- o Asia Pacific
 - China
 - India
 - Japan

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- Australia
- South Korea
- o South America
- Brazil
- Argentina
- Colombia
- o Middle East & Africa
- South Africa
- Saudi Arabia
- UAE

Competitive Landscape

Company Profiles: Detailed analysis of the major companies presents in the Global Smart Robots Market.

Available Customizations:

Global Smart Robots Market report with the given market data, TechSci Research offers customizations according to a company's specific needs. The following customization options are available for the report:

Company Information

-□ Detailed analysis and profiling of additional market players (up to five).

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