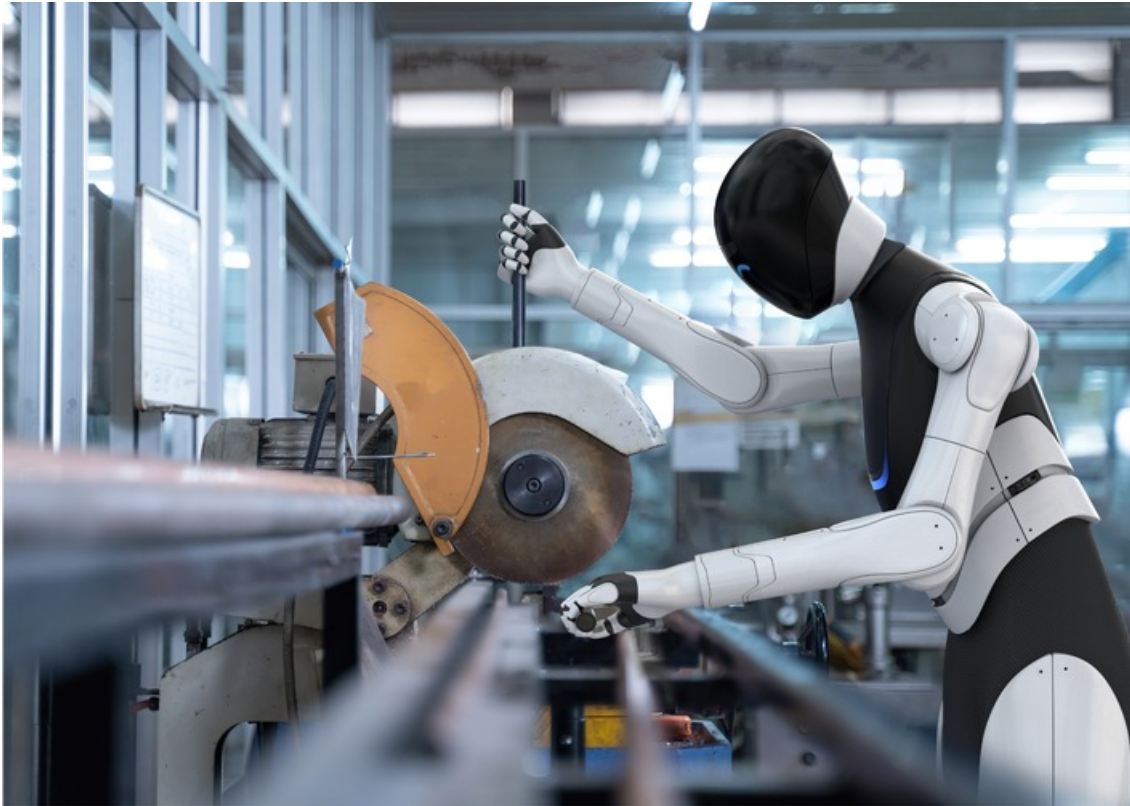


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Global Robot Demand in Factories Doubles Over 10 Years



Frankfurt (ots) -

- World Robotics 2025 Report by International Federation of Robotics released

The new World Robotics 2025 statistics on industrial robots showed 542,076 robots installed in 2024 - more than double the number 10 years ago. Annual installations topped 500,000 units for the fourth straight year. Asia accounted for 74% of new deployments in 2024, compared with 16% in Europe and 9% in the Americas.

“The new World Robotics statistics show 2024 the second highest annual installation count of industrial robots in history - only 2% lower than the all-time-high two years ago,” says Takayuki Ito, President of the International Federation of Robotics. “The transition of many industries into the digital and automated age has been marked by a huge surge in demand. The total number of industrial robots in operational use worldwide was 4,664,000 units in 2024 - an increase of 9% compared to the previous year.”

Asia, Europe and the Americas - overview

China is by far the world's largest market in 2024, representing 54% of global deployments. The latest figures show that 295,000 industrial robots have been installed - the highest annual total on record. For the first time, Chinese manufacturers have sold more than foreign suppliers in their home country. Their domestic market share climbed to 57% last year, up from about 28% over the past decade. China's operational robot stock exceeded the 2 million mark in 2024, the largest of any country. As robotics in China is opening up new markets, there is no indication that robot demand in China will decrease. There is still a lot of potential in Chinese manufacturing for 10% growth on average each year until 2028.

Japan maintained its position as the second-largest market for industrial robots, with 44,500 units installed in 2024 - a slight 4% decrease. The country's operational stock rose by 3%, with 450,500 units now in use. Demand for robots will grow slightly by lower single-digit rates in 2025. It will then accelerate to a medium single-digit rate on average in the next few years.

The market in the **Republic of Korea** installed 30,600 units in 2024 – down 3%. Annual installations had been trending sideways of around 31,000 units since 2019. The country is the fourth largest robot market in the world in terms of annual installations in 2024, after the United States, Japan, and China.

India continues to grow with a record of 9,100 units installed in 2024 – up 7%. The automotive industry was the strongest driver with a market share of 45%. In terms of annual installations, India ranks sixth worldwide, one place up behind Germany.

Europe

Industrial robot installations in **Europe** fell 8% to 85,000 units in 2024, still the second largest number recorded in history. 80% of all European robot installations took place in the European Union (67,800 units). Robot demand in Europe benefited from the nearshoring trend. The annual average growth rate from 2019 to 2024 was +3%.

Germany is the largest robot market in Europe and the fifth-largest in the world. Installations fell 5% to 26,982 units in 2024, which is the second-best result recorded after the record year of 2023. This represents a 32% market share of the annual total in Europe. The number of installations in **Italy**, the second largest European market, fell by 16% to 8,783 units. **Spain** is now in third place (5,100 units), with a strong demand from the automotive industry. **France** (4,900 units) moved down to fourth place, with a 24% decrease.

In the **UK**, industrial robot installations were down 35% to 2,500 units in 2024. The record number of 3,800 units in 2023 was a one-off peak, driven by the “super-deduction” tax credit program, which ended after the first quarter of 2023. Installation counts moved sideways with some cyclicity over the past decade. Robot installations in the UK rank 19th worldwide in 2024.

The Americas

Robot installations in the Americas exceeded 50,000 units for the fourth year in a row: 50,100 units were installed in 2024, down 10% below the level reached 2023.

The **United States**, the largest regional market, accounted for 68% of installations in the Americas in 2024. Robot installations were down by 9% to 34,200 units. The United States imports most of its robots from Japan and Europe, with few domestic suppliers. However, there are numerous domestic robot system integrators implementing robotic automation solutions.

Total installations in **Mexico** reached 5,600 units in 2024, a decrease of 4%. The automotive industry remained the key customer of industrial robots in Mexico, accounting for 63% of the installations in 2024.

In **Canada**, robot installations declined by 12% to 3,800 units. Installation figures in Canada largely depend on automotive investment cycles. The share of the car industry was 47% in 2024.

Outlook

The OECD and the IMF expects global growth in a range of 2.9% to 3.0% in 2025 and 2.9% and 3.1% in 2026. However, geopolitical tensions, violent conflicts in Eastern Europe and the Middle East, and trade disruptions are exerting their negative impact on the global economy.

The robotics industry is not immune to global macroeconomic conditions, but there is no indication that the overall long-term growth trend will come to an end any time soon. While regional trends vary substantially, the aggregate global trajectory remains positive. Globally, robot installations are expected to grow by 6% to 575,000 units in 2025. By 2028, the 700,000-unit mark will be surpassed.

Press release in English and German language and picture can be downloaded at:

<https://ifr.org/ifr-press-releases/>

About IFR The International Federation of Robotics is the voice of the global robotics industry. IFR represents national robot associations, academia, and manufacturers of industrial and service robots from over twenty countries: www.ifr.org

The IFR Statistical Department provides data for two annual robotics studies:

World Robotics - Industrial Robots: This unique report provides global statistics on industrial robots in standardized tables and enables national comparisons to be made. It presents statistical data for around 40 countries broken down into areas of application, customer industries, types of robots and other technical and economic aspects. Production, export and import data is listed for selected countries. It also offers robot density,

i.e. the number of robots per 10,000 employees, as a measure for the degree of automation.

World Robotics - Service Robots: This unique report describes marketable products, tasks, challenges and new developments by [service robots](#) application. The report includes the results of the annual IFR service robot survey on global sales of professional and consumer service robots and an industry structure analysis including a full list of all service robot producers known to the IFR. The study is jointly prepared with the robotics experts of Fraunhofer IPA, Stuttgart.

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Humanoids are considered to be the next big thing in robotics: China, the world's largest market for industrial robots, has set out specific targets for its plans to mass-produce humanoids. Meanwhile, tech companies in the US and Europe are announcing significant funding. The vision is to create general-purpose robots based on human motion mechanics. What are the trends, opportunities, and potential limitations of humanoids? The International Federation of Robotics has released a new positioning paper that provides valuable insights. About the POSITION PAPER Humanoid Robot by IFR Free download at <https://ifr.org/papers/download> / More information via ots and www.presseportal.de/en/nr/115415 / The use of this image for editorial purposes is permitted and free of charge provided that all conditions of use are complied with. Publication must include image credits.

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