

Global Flexible Grinding Collaborative Robot Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Flexible Grinding Collaborative Robot market size is expected to reach \$ 565 million by 2032, rising at a market growth of 10.7% CAGR during the forecast period (2026-2032).

A flexible grinding collaborative robot is a robotic system that integrates a six-axis force/torque sensor directly into the tool flange and utilizes a series elastic actuator or passive compliance mechanism at each joint, enabling the arm to simultaneously sense contact force and adapt its trajectory in real time during material removal. Its core objective is to enable a human operator to physically guide the robot through a grinding path in a teach-by-demonstration mode while the robot subsequently reproduces and refines the motion with consistent force control, thereby compressing the setup time from hours to minutes. The primary functional distinction lies in its intrinsic ability to stop or reverse motion upon detecting unexpected collision forces exceeding a preset threshold, which eliminates the need for safety fencing and reduces floor space requirements. By embedding force control directly into the collaborative architecture, this type of robot transforms manual grinding skill into a programmable, repeatable, and safe-to-interact finishing process. In 2025, global Flexible Grinding Collaborative Robotic production reached approximately 13.5 k units with an average global market price of around k US\$20 per unit.

The future development trends of the flexible grinding collaborative robot industry are concentrated in a three-pronged profit restructuring encompassing safety compliance premiums, perceptual hardware differentiation, and software process value. In accordance with the policy requirement of 'enhancing the refined operational capability of robots' from the Ministry of Industry and Information Technology's 'Robot+' Application Action Implementation Plan, as well as the annual reports and product

roadmaps from companies such as Universal Robots, FANUC, KUKA, and EFORT, built-in joint torque sensors and six-axis force/torque sensors at the tool end have become standard on high-end models. This differentiation at the perceptual hardware level is significantly widening the gross margin gap within the same product category, meaning that revenue growth for these companies is now driven by the configuration gradient of core sensors. Simultaneously, according to relevant certification bulletins from the State Administration for Market Regulation, collaborative models featuring safety torque limiting and collision detection functions have, after obtaining functional safety certification, commanded significantly higher end-user pricing than comparable industrial robots in automotive parts and small metal part processing scenarios. This pricing power granted by safety redundancy is building a profit moat for enterprises. Furthermore, based on public statements in the investor relations sections of various company websites, the improvement in customer operational efficiency achieved by reducing teaching time is being converted into recurring service revenue through annual subscriptions or pay-per-process-package models. This is shifting the profit structure of various manufacturers from one-time equipment sales to long-term revenue sharing from process capabilities and consumables. The companies that will lead this industry in the future will no longer be manufacturers that output robot axis count and payload specifications, but rather service providers possessing deep perception capabilities and closed-loop process software ecosystems.

This report studies the global Flexible Grinding Collaborative Robot production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Flexible Grinding Collaborative Robot 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 Flexible Grinding Collaborative Robot that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Flexible Grinding Collaborative Robot total production and demand, 2021-2032, (Units)

Global Flexible Grinding Collaborative Robot total production value, 2021-2032, (USD Million)

Global Flexible Grinding Collaborative Robot production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)

Global Flexible Grinding Collaborative Robot consumption by region & country, CAGR,

2021-2032 & (Units)

U.S. VS China: Flexible Grinding Collaborative Robot domestic production, consumption, key domestic manufacturers and share

Global Flexible Grinding Collaborative Robot production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)

Global Flexible Grinding Collaborative Robot production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global Flexible Grinding Collaborative Robot production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global Flexible Grinding Collaborative Robot market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include FANUC, ABB, Nordbo Robotics, ACME, Kane Robotics, YASKAWA, Reichmann & Sohn GmbH, FILL, GrayMatter Robotics, SUHNER, 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 Flexible Grinding Collaborative Robot market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Units) and average price (K 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 Flexible Grinding Collaborative Robot Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Flexible Grinding Collaborative Robot Market, Segmentation by Type:

Six-Axis Collaborative Robot

Seven-Axis Collaborative Robot

Global Flexible Grinding Collaborative Robot Market, Segmentation by Sensing Technology:

2D Vision

3D Vision

Global Flexible Grinding Collaborative Robot Market, Segmentation by Grinding Method:

Active Grinding

Passive Grinding

Global Flexible Grinding Collaborative Robot Market, Segmentation by Application:

Military Industrial

Automobile

Aerospace

Medical

Others

Companies Profiled:

FANUC

ABB

Nordbo Robotics

ACME

Kane Robotics

YASKAWA

Reichmann & Sohn GmbH

FILL

GrayMatter Robotics

SUHNER

Zhejiang Qianjiang Robot

Shenzhen Hans Robot

Efort Intelligent Equipment

Ningbo Stial Technology

Shanghai Flexiv Robotics Technology

Guangdong LXD Robotics

ESTUN AUTOMATION (NANJING)

Dalian Yuyang Industry Intelligent

Surface Intelligent Technology (Shanghai)

Shenyang SIASUN Robot & Automation

Shandong Kaodao Intelligent Equipment

Rokae (Beijing) Robotics

Guangdong Huayan Robotics

TOSSO Automation (Shanghai)

Key Questions Answered:

1. How big is the global Flexible Grinding Collaborative Robot market?
2. What is the demand of the global Flexible Grinding Collaborative Robot market?
3. What is the year over year growth of the global Flexible Grinding Collaborative Robot market?
4. What is the production and production value of the global Flexible Grinding Collaborative Robot market?
5. Who are the key producers in the global Flexible Grinding Collaborative Robot market?
6. What are the growth factors driving the market demand?

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