

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

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Abstracts

The global AI Flexible Grinding Robot market size is expected to reach \$ 546 million by 2032, rising at a market growth of 21.5% CAGR during the forecast period (2026-2032).

An AI Flexible Grinding Robot is an automated grinding device that integrates artificial intelligence technology. It possesses self-learning and perception capabilities, allowing it to intelligently adjust grinding parameters such as force, speed, and path for different materials and shapes of workpieces, thereby achieving efficient and precise grinding operations. The robot is capable of analyzing data in real-time during the grinding process and autonomously optimizing operational strategies to adapt to complex and variable grinding requirements, enhancing grinding quality and efficiency while reducing production costs and the need for manual intervention. In 2025, global AI Flexible Grinding Robot production reached approximately 3380 units with an average global market price of around k US\$40 per unit.

The future development trends of the AI Flexible Grinding Robot industry are concentrated in the transformation from single machine equipment sales to process data services. Government documents such as the 'Robot+ Application Action Implementation Plan' issued by the Ministry of Industry and Information Technology explicitly encourage robots to achieve adaptive operations in scenarios such as complex surface machining. This forces enterprises not only to deliver robotic arms and force control end effectors, but also to provide process packages containing grinding path planning and parameter self-tuning to generate recurring revenue. At the corporate dynamics level, according to the official annual report of Estun Automation, its acquisition of Germany's Cloos company has enabled it to master the process database for welding and grinding, indicating that achieving differentiated premium through mastering process Know-How has become the core strategy of leading enterprises.

One major industry trend is the deep coupling of force-position hybrid control algorithms with digital twin technology. According to official news from Huazhong Numerical Control, it has jointly developed a grinding process simulation platform based on digital twins with universities, which can pre-generate and optimize grinding trajectories in a virtual environment, thereby shortening on-site parameter tuning time. This directly reduces customer production stoppage losses and increases the annual procurement value per single customer. Another trend is that line integrators are accelerating the packaging of AI Flexible Grinding units. According to official news from Topstar, it has integrated vision guidance and adaptive force control grinding into standard workstations, and through a leasing model, has lowered customer entry barriers, thereby expanding the addressable market size. Overall, profits in this industry are shifting from component and body manufacturing towards the upstream process model library and downstream remote operation and maintenance services. Enterprises with full-stack process accumulation and data iteration capabilities will form structural advantages in customer renewal rates and per-customer revenue value.

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

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

Highlights and key features of the study

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

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

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

Global AI Flexible Grinding Robot consumption by region & country, CAGR, 2021-2032 & (Units)

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

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

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

Global AI Flexible Grinding Robot production by Application, production, value, CAGR,

2021-2032, (USD Million) & (Units)

This report profiles key players in the global AI Flexible Grinding 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 Nordbo Robotics, Teqram, RobCo, GrayMatter Robotics, Da Shiang Automation, Ningbo Stial Technology, TOSSO Automation (Shanghai), Shanghai Flexiv Robotics Technology, Rokae (Beijing) Robotics, Shanghai Dakuan Technology, 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 AI Flexible Grinding 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 AI Flexible Grinding Robot Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global AI Flexible Grinding Robot Market, Segmentation by Type:

Workstation Type

AGV/AMR Type

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

2D Vision

3D Vision

Global AI Flexible Grinding Robot Market, Segmentation by Drive Technology:

Electric

Pneumatic

Hydraulic

Global AI Flexible Grinding Robot Market, Segmentation by Application:

Military Industrial

Automobile

Aerospace

Medical

Others

Companies Profiled:

Nordbo Robotics

Tegram

RobCo

GrayMatter Robotics

Da Shiang Automation

Ningbo Stial Technology

TOSSO Automation (Shanghai)

Shanghai Flexiv Robotics Technology

Rokae (Beijing) Robotics

Shanghai Dakuan Technology

Suzhou Elite Robot

Shenzhen Dafang Intelligent Technology

Link Touch (Beijing) Technology

Key Questions Answered:

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

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