

Global Intelligent Grain Sampling Robot Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Intelligent Grain Sampling Robot market size is expected to reach \$ 54.14 million by 2032, rising at a market growth of 7.0% CAGR during the forecast period (2026-2032).

Intelligent grain sampling robot refers to an automated equipment category used in grain procurement, inbound grain acceptance, reserve grain depots and raw grain receiving processes at grain processing facilities. The research object focuses on robotic systems that replace manual sampling and obtain representative grain samples from trucks, bulk grain containers, rail wagons, grain piles or storage related receiving points. Major product forms include gantry type intelligent sampling robots, fixed automatic truck grain samplers, multi probe intelligent sampling systems, hydraulic probe based grain sampling systems and autonomous robots that move inside grain piles for sampling and monitoring. Core technologies include three dimensional vision or radar based vehicle recognition, random sampling point generation, gantry or robotic motion control, hydraulic or electric probe actuation, pneumatic sample conveying, sample contamination prevention, safety interlock control, human machine interface and connection with grain depot management systems. Key specifications include sampling depth, number of sampling points, single vehicle operating time, sample conveying distance, positioning accuracy, compatible vehicle types, applicable grain varieties, dust protection level, operating reliability and integration capability with weighing, inspection and traceability systems. The product is mainly used to improve sample representativeness, reduce manual intervention, improve grain receiving efficiency, strengthen quality traceability and support transparent supervision in grain circulation. In 2025, global sales volume of intelligent grain sampling robots was about 300 units, the industry average selling price was about USD 105000 per unit, and the average gross margin was about 35%.

Intelligent grain sampling robots sit at the intersection of smart grain depot equipment and automated grain procurement systems. The upstream supply chain includes steel structures, hydraulic components, servo motors, vision and radar sensors, industrial controllers, pneumatic conveying parts and safety protection modules. The midstream consists of robot and equipment manufacturers, grain machinery producers and automation system providers for grain depots. The downstream covers reserve grain depots, grain purchasing stations, grain processing plants, port grain terminals, feed producers and ethanol related grain users. The value of the product is not limited to physical sampling. Its stronger role is to combine random sampling, automatic sample transfer, identity binding and process traceability, thereby improving fairness, efficiency and auditability in grain receiving. The competitive landscape remains small and fragmented. North American and European suppliers are more focused on mature truck probe and automatic grain sampler systems, while Chinese suppliers place greater emphasis on intelligent sampling and inspection systems, gantry robots, multi probe structures and integration with depot supervision platforms. Product delivery is still largely project based, and standardization remains limited. Pricing varies according to the number of lanes, number of probes, sampling depth, conveying distance, control system complexity and platform connection requirements. Because the single product market is not large, the industry is unlikely to attract a large number of general robot manufacturers in the short term. Competition will mainly depend on reliability, sample representativeness, field adaptation and proven grain depot project experience. The policy and demand environment is supportive. Stronger requirements for food security, reserve grain supervision, fair procurement and quality traceability are encouraging grain depots and processors to invest in automated sampling and inspection equipment. Future growth will mainly come from upgrades of existing grain depots, equipment replacement at high frequency receiving points and integration with intelligent inspection systems. However, demand will still be affected by capital expenditure cycles, public procurement timing, local fiscal budgets and project acceptance standards. Overall, this is a growing niche equipment market with clear application value and moderate expansion potential, but its long term ceiling is smaller than that of broad agricultural robotics or general grain testing equipment.

This report studies the global Intelligent Grain Sampling Robot production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

Global Intelligent Grain Sampling Robot total production and demand, 2021-2032, (Unit)

Global Intelligent Grain Sampling Robot total production value, 2021-2032, (USD Million)

Global Intelligent Grain Sampling Robot production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Unit), (based on production site)

Global Intelligent Grain Sampling Robot consumption by region & country, CAGR, 2021-2032 & (Unit)

U.S. VS China: Intelligent Grain Sampling Robot domestic production, consumption, key domestic manufacturers and share

Global Intelligent Grain Sampling Robot production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Unit)

Global Intelligent Grain Sampling Robot production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Unit)

Global Intelligent Grain Sampling Robot production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Unit)

This report profiles key players in the global Intelligent Grain Sampling 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 AGCO Corporation, Gamet Manufacturing, C.R. Manufacturing, TEKPRO Ltd., Pfeuffer GmbH, Bastak Instruments, Abilitech Intelligent Technology (Beijing) Co., Ltd., Shandong Jinzhong Technology Group Co., Ltd., Jilin Sanhao Automation Machinery Co., Ltd., Crover 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 Intelligent Grain Sampling Robot market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Unit) 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 Intelligent Grain Sampling Robot Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Intelligent Grain Sampling Robot Market, Segmentation by Type:

Gantry Type Intelligent Sampling Robot

Fixed Automatic Truck Sampler

Multi Probe Intelligent Sampling System

Rail Mounted Sampling Robot

In Grain Autonomous Sampling Robot

Others

Global Intelligent Grain Sampling Robot Market, Segmentation by Sampling Object:

Truck Grain Sampling

Rail Wagon Grain Sampling

Bulk Storage Grain Sampling

Vessel or Barge Grain Sampling

Others

Global Intelligent Grain Sampling Robot Market, Segmentation by Probe Actuation Method:

Hydraulic Probe Actuation

Electric Probe Actuation

Pneumatic Assisted Sampling

Hybrid Actuation

Others

Global Intelligent Grain Sampling Robot Market, Segmentation by Application:

Grain Reserve Industry

Grain Procurement and Trading Industry

Grain Processing Industry

Grain Logistics and Port Industry

Agricultural Testing and Supervision Industry

Others

Companies Profiled:

AGCO Corporation

Gamet Manufacturing

C.R. Manufacturing

TEKPRO Ltd.

Pfeuffer GmbH

Bastak Instruments

Abilitech Intelligent Technology (Beijing) Co., Ltd.

Shandong Jinzhong Technology Group Co., Ltd.

Jilin Sanhao Automation Machinery Co., Ltd.

Crover Ltd

Key Questions Answered:

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

Contents

1 SUPPLY SUMMARY

- 1.1 Intelligent Grain Sampling Robot Introduction
- 1.2 World Intelligent Grain Sampling Robot Supply & Forecast
 - 1.2.1 World Intelligent Grain Sampling Robot Production Value (2021 & 2025 & 2032)
 - 1.2.2 World Intelligent Grain Sampling Robot Production (2021-2032)
 - 1.2.3 World Intelligent Grain Sampling Robot Pricing Trends (2021-2032)
- 1.3 World Intelligent Grain Sampling Robot Production by Region (Based on Production Site)
 - 1.3.1 World Intelligent Grain Sampling Robot Production Value by Region (2021-2032)
 - 1.3.2 World Intelligent Grain Sampling Robot Production by Region (2021-2032)
 - 1.3.3 World Intelligent Grain Sampling Robot Average Price by Region (2021-2032)
 - 1.3.4 North America Intelligent Grain Sampling Robot Production (2021-2032)
 - 1.3.5 Europe Intelligent Grain Sampling Robot Production (2021-2032)
 - 1.3.6 China Intelligent Grain Sampling Robot Production (2021-2032)
 - 1.3.7 Japan Intelligent Grain Sampling Robot Production (2021-2032)
- 1.4 Market Drivers, Restraints and Trends
 - 1.4.1 Intelligent Grain Sampling Robot Market Drivers
 - 1.4.2 Factors Affecting Demand
 - 1.4.3 Intelligent Grain Sampling Robot Major Market Trends

2 DEMAND SUMMARY

- 2.1 World Intelligent Grain Sampling Robot Demand (2021-2032)
- 2.2 World Intelligent Grain Sampling Robot Consumption by Region
 - 2.2.1 World Intelligent Grain Sampling Robot Consumption by Region (2021-2026)
 - 2.2.2 World Intelligent Grain Sampling Robot Consumption Forecast by Region (2027-2032)
- 2.3 United States Intelligent Grain Sampling Robot Consumption (2021-2032)
- 2.4 China Intelligent Grain Sampling Robot Consumption (2021-2032)
- 2.5 Europe Intelligent Grain Sampling Robot Consumption (2021-2032)
- 2.6 Japan Intelligent Grain Sampling Robot Consumption (2021-2032)
- 2.7 South Korea Intelligent Grain Sampling Robot Consumption (2021-2032)
- 2.8 ASEAN Intelligent Grain Sampling Robot Consumption (2021-2032)
- 2.9 India Intelligent Grain Sampling Robot Consumption (2021-2032)

3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

- 3.1 World Intelligent Grain Sampling Robot Production Value by Manufacturer (2021-2026)
- 3.2 World Intelligent Grain Sampling Robot Production by Manufacturer (2021-2026)
- 3.3 World Intelligent Grain Sampling Robot Average Price by Manufacturer (2021-2026)
- 3.4 Intelligent Grain Sampling Robot Company Evaluation Quadrant
- 3.5 Industry Rank and Concentration Rate (CR)
 - 3.5.1 Global Intelligent Grain Sampling Robot Industry Rank of Major Manufacturers
 - 3.5.2 Global Concentration Ratios (CR4) for Intelligent Grain Sampling Robot in 2025
 - 3.5.3 Global Concentration Ratios (CR8) for Intelligent Grain Sampling Robot in 2025
- 3.6 Intelligent Grain Sampling Robot Market: Overall Company Footprint Analysis
 - 3.6.1 Intelligent Grain Sampling Robot Market: Region Footprint
 - 3.6.2 Intelligent Grain Sampling Robot Market: Company Product Type Footprint
 - 3.6.3 Intelligent Grain Sampling Robot Market: Company Product Application Footprint
- 3.7 Competitive Environment
 - 3.7.1 Historical Structure of the Industry
 - 3.7.2 Barriers of Market Entry
 - 3.7.3 Factors of Competition
- 3.8 New Entrant and Capacity Expansion Plans
- 3.9 Mergers, Acquisition, Agreements, and Collaborations

4 UNITED STATES VS CHINA VS REST OF THE WORLD

- 4.1 United States VS China: Intelligent Grain Sampling Robot Production Value Comparison
 - 4.1.1 United States VS China: Intelligent Grain Sampling Robot Production Value Comparison (2021 & 2025 & 2032)
 - 4.1.2 United States VS China: Intelligent Grain Sampling Robot Production Value Market Share Comparison (2021 & 2025 & 2032)
- 4.2 United States VS China: Intelligent Grain Sampling Robot Production Comparison
 - 4.2.1 United States VS China: Intelligent Grain Sampling Robot Production Comparison (2021 & 2025 & 2032)
 - 4.2.2 United States VS China: Intelligent Grain Sampling Robot Production Market Share Comparison (2021 & 2025 & 2032)
- 4.3 United States VS China: Intelligent Grain Sampling Robot Consumption Comparison
 - 4.3.1 United States VS China: Intelligent Grain Sampling Robot Consumption Comparison (2021 & 2025 & 2032)
 - 4.3.2 United States VS China: Intelligent Grain Sampling Robot Consumption Market Share Comparison (2021 & 2025 & 2032)

4.4 United States Based Intelligent Grain Sampling Robot Manufacturers and Market Share, 2021-2026

4.4.1 United States Based Intelligent Grain Sampling Robot Manufacturers, Headquarters and Production Site (States, Country)

4.4.2 United States Based Manufacturers Intelligent Grain Sampling Robot Production Value (2021-2026)

4.4.3 United States Based Manufacturers Intelligent Grain Sampling Robot Production (2021-2026)

4.5 China Based Intelligent Grain Sampling Robot Manufacturers and Market Share

4.5.1 China Based Intelligent Grain Sampling Robot Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers Intelligent Grain Sampling Robot Production Value (2021-2026)

4.5.3 China Based Manufacturers Intelligent Grain Sampling Robot Production (2021-2026)

4.6 Rest of World Based Intelligent Grain Sampling Robot Manufacturers and Market Share, 2021-2026

4.6.1 Rest of World Based Intelligent Grain Sampling Robot Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers Intelligent Grain Sampling Robot Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers Intelligent Grain Sampling Robot Production (2021-2026)

5 MARKET ANALYSIS BY TYPE

5.1 World Intelligent Grain Sampling Robot Market Size Overview by Type: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Type

5.2.1 Gantry Type Intelligent Sampling Robot

5.2.2 Fixed Automatic Truck Sampler

5.2.3 Multi Probe Intelligent Sampling System

5.2.4 Rail Mounted Sampling Robot

5.2.5 In Grain Autonomous Sampling Robot

5.2.6 Others

5.3 Market Segment by Type

5.3.1 World Intelligent Grain Sampling Robot Production by Type (2021-2032)

5.3.2 World Intelligent Grain Sampling Robot Production Value by Type (2021-2032)

5.3.3 World Intelligent Grain Sampling Robot Average Price by Type (2021-2032)

6 MARKET ANALYSIS BY SAMPLING OBJECT

6.1 World Intelligent Grain Sampling Robot Market Size Overview by Sampling Object: 2021 VS 2025 VS 2032

6.2 Segment Introduction by Sampling Object

6.2.1 Truck Grain Sampling

6.2.2 Rail Wagon Grain Sampling

6.2.3 Bulk Storage Grain Sampling

6.2.4 Vessel or Barge Grain Sampling

6.2.5 Others

6.3 Market Segment by Sampling Object

6.3.1 World Intelligent Grain Sampling Robot Production by Sampling Object (2021-2032)

6.3.2 World Intelligent Grain Sampling Robot Production Value by Sampling Object (2021-2032)

6.3.3 World Intelligent Grain Sampling Robot Average Price by Sampling Object (2021-2032)

7 MARKET ANALYSIS BY PROBE ACTUATION METHOD

7.1 World Intelligent Grain Sampling Robot Market Size Overview by Probe Actuation Method: 2021 VS 2025 VS 2032

7.2 Segment Introduction by Probe Actuation Method

7.2.1 Hydraulic Probe Actuation

7.2.2 Electric Probe Actuation

7.2.3 Pneumatic Assisted Sampling

7.2.4 Hybrid Actuation

7.2.5 Others

7.3 Market Segment by Probe Actuation Method

7.3.1 World Intelligent Grain Sampling Robot Production by Probe Actuation Method (2021-2032)

7.3.2 World Intelligent Grain Sampling Robot Production Value by Probe Actuation Method (2021-2032)

7.3.3 World Intelligent Grain Sampling Robot Average Price by Probe Actuation Method (2021-2032)

8 MARKET ANALYSIS BY APPLICATION

8.1 World Intelligent Grain Sampling Robot Market Size Overview by Application: 2021 VS 2025 VS 2032

8.2 Segment Introduction by Application

- 8.2.1 Grain Reserve Industry
- 8.2.2 Grain Procurement and Trading Industry
- 8.2.3 Grain Processing Industry
- 8.2.4 Grain Logistics and Port Industry
- 8.2.5 Agricultural Testing and Supervision Industry
- 8.2.6 Others

8.3 Market Segment by Application

- 8.3.1 World Intelligent Grain Sampling Robot Production by Application (2021-2032)
- 8.3.2 World Intelligent Grain Sampling Robot Production Value by Application (2021-2032)
- 8.3.3 World Intelligent Grain Sampling Robot Average Price by Application (2021-2032)

9 COMPANY PROFILES

9.1 AGCO Corporation

- 9.1.1 AGCO Corporation Details
- 9.1.2 AGCO Corporation Major Business
- 9.1.3 AGCO Corporation Intelligent Grain Sampling Robot Product and Services
- 9.1.4 AGCO Corporation Intelligent Grain Sampling Robot Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.1.5 AGCO Corporation Recent Developments/Updates
- 9.1.6 AGCO Corporation Competitive Strengths & Weaknesses

9.2 Gamet Manufacturing

- 9.2.1 Gamet Manufacturing Details
- 9.2.2 Gamet Manufacturing Major Business
- 9.2.3 Gamet Manufacturing Intelligent Grain Sampling Robot Product and Services
- 9.2.4 Gamet Manufacturing Intelligent Grain Sampling Robot Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.2.5 Gamet Manufacturing Recent Developments/Updates
- 9.2.6 Gamet Manufacturing Competitive Strengths & Weaknesses

9.3 C.R. Manufacturing

- 9.3.1 C.R. Manufacturing Details
- 9.3.2 C.R. Manufacturing Major Business
- 9.3.3 C.R. Manufacturing Intelligent Grain Sampling Robot Product and Services
- 9.3.4 C.R. Manufacturing Intelligent Grain Sampling Robot Production, Price, Value,

Gross Margin and Market Share (2021-2026)

9.3.5 C.R. Manufacturing Recent Developments/Updates

9.3.6 C.R. Manufacturing Competitive Strengths & Weaknesses

9.4 TEKPRO Ltd.

9.4.1 TEKPRO Ltd. Details

9.4.2 TEKPRO Ltd. Major Business

9.4.3 TEKPRO Ltd. Intelligent Grain Sampling Robot Product and Services

9.4.4 TEKPRO Ltd. Intelligent Grain Sampling Robot Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.4.5 TEKPRO Ltd. Recent Developments/Updates

9.4.6 TEKPRO Ltd. Competitive Strengths & Weaknesses

9.5 Pfeuffer GmbH

9.5.1 Pfeuffer GmbH Details

9.5.2 Pfeuffer GmbH Major Business

9.5.3 Pfeuffer GmbH Intelligent Grain Sampling Robot Product and Services

9.5.4 Pfeuffer GmbH Intelligent Grain Sampling Robot Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.5.5 Pfeuffer GmbH Recent Developments/Updates

9.5.6 Pfeuffer GmbH Competitive Strengths & Weaknesses

9.6 Bastak Instruments

9.6.1 Bastak Instruments Details

9.6.2 Bastak Instruments Major Business

9.6.3 Bastak Instruments Intelligent Grain Sampling Robot Product and Services

9.6.4 Bastak Instruments Intelligent Grain Sampling Robot Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.6.5 Bastak Instruments Recent Developments/Updates

9.6.6 Bastak Instruments Competitive Strengths & Weaknesses

9.7 Abilitech Intelligent Technology (Beijing) Co., Ltd.

9.7.1 Abilitech Intelligent Technology (Beijing) Co., Ltd. Details

9.7.2 Abilitech Intelligent Technology (Beijing) Co., Ltd. Major Business

9.7.3 Abilitech Intelligent Technology (Beijing) Co., Ltd. Intelligent Grain Sampling Robot Product and Services

9.7.4 Abilitech Intelligent Technology (Beijing) Co., Ltd. Intelligent Grain Sampling Robot Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.7.5 Abilitech Intelligent Technology (Beijing) Co., Ltd. Recent Developments/Updates

9.7.6 Abilitech Intelligent Technology (Beijing) Co., Ltd. Competitive Strengths & Weaknesses

9.8 Shandong Jinzhong Technology Group Co., Ltd.

9.8.1 Shandong Jinzhong Technology Group Co., Ltd. Details

- 9.8.2 Shandong Jinzhong Technology Group Co., Ltd. Major Business
- 9.8.3 Shandong Jinzhong Technology Group Co., Ltd. Intelligent Grain Sampling Robot Product and Services
- 9.8.4 Shandong Jinzhong Technology Group Co., Ltd. Intelligent Grain Sampling Robot Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.8.5 Shandong Jinzhong Technology Group Co., Ltd. Recent Developments/Updates
- 9.8.6 Shandong Jinzhong Technology Group Co., Ltd. Competitive Strengths & Weaknesses
- 9.9 Jilin Sanhao Automation Machinery Co., Ltd.
 - 9.9.1 Jilin Sanhao Automation Machinery Co., Ltd. Details
 - 9.9.2 Jilin Sanhao Automation Machinery Co., Ltd. Major Business
 - 9.9.3 Jilin Sanhao Automation Machinery Co., Ltd. Intelligent Grain Sampling Robot Product and Services
 - 9.9.4 Jilin Sanhao Automation Machinery Co., Ltd. Intelligent Grain Sampling Robot Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.9.5 Jilin Sanhao Automation Machinery Co., Ltd. Recent Developments/Updates
 - 9.9.6 Jilin Sanhao Automation Machinery Co., Ltd. Competitive Strengths & Weaknesses
- 9.10 Crover Ltd
 - 9.10.1 Crover Ltd Details
 - 9.10.2 Crover Ltd Major Business
 - 9.10.3 Crover Ltd Intelligent Grain Sampling Robot Product and Services
 - 9.10.4 Crover Ltd Intelligent Grain Sampling Robot Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.10.5 Crover Ltd Recent Developments/Updates
 - 9.10.6 Crover Ltd Competitive Strengths & Weaknesses

10 INDUSTRY CHAIN ANALYSIS

- 10.1 Intelligent Grain Sampling Robot Industry Chain
- 10.2 Intelligent Grain Sampling Robot Upstream Analysis
 - 10.2.1 Intelligent Grain Sampling Robot Core Raw Materials
 - 10.2.2 Main Manufacturers of Intelligent Grain Sampling Robot Core Raw Materials
- 10.3 Midstream Analysis
- 10.4 Downstream Analysis
- 10.5 Intelligent Grain Sampling Robot Production Mode
- 10.6 Intelligent Grain Sampling Robot Procurement Model
- 10.7 Intelligent Grain Sampling Robot Industry Sales Model and Sales Channels
 - 10.7.1 Intelligent Grain Sampling Robot Sales Model

10.7.2 Intelligent Grain Sampling Robot Typical Distributors

11 RESEARCH FINDINGS AND CONCLUSION

12 APPENDIX

12.1 Methodology

12.2 Research Process and Data Source

12.3 Disclaimer

List Of Tables

LIST OF TABLES

Table 1. World Intelligent Grain Sampling Robot Production Value by Region (2021, 2025 and 2032) & (USD Million)

Table 2. World Intelligent Grain Sampling Robot Production Value by Region (2021-2026) & (USD Million)

Table 3. World Intelligent Grain Sampling Robot Production Value by Region (2027-2032) & (USD Million)

Table 4. World Intelligent Grain Sampling Robot Production Value Market Share by Region (2021-2026)

Table 5. World Intelligent Grain Sampling Robot Production Value Market Share by Region (2027-2032)

Table 6. World Intelligent Grain Sampling Robot Production by Region (2021-2026) & (Unit)

Table 7. World Intelligent Grain Sampling Robot Production by Region (2027-2032) & (Unit)

Table 8. World Intelligent Grain Sampling Robot Production Market Share by Region (2021-2026)

Table 9. World Intelligent Grain Sampling Robot Production Market Share by Region (2027-2032)

Table 10. World Intelligent Grain Sampling Robot Average Price by Region (2021-2026) & (K US\$/Unit)

Table 11. World Intelligent Grain Sampling Robot Average Price by Region (2027-2032) & (K US\$/Unit)

Table 12. Intelligent Grain Sampling Robot Major Market Trends

Table 13. World Intelligent Grain Sampling Robot Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (Unit)

Table 14. World Intelligent Grain Sampling Robot Consumption by Region (2021-2026) & (Unit)

Table 15. World Intelligent Grain Sampling Robot Consumption Forecast by Region (2027-2032) & (Unit)

Table 16. World Intelligent Grain Sampling Robot Production Value by Manufacturer (2021-2026) & (USD Million)

Table 17. Production Value Market Share of Key Intelligent Grain Sampling Robot Producers in 2025

Table 18. World Intelligent Grain Sampling Robot Production by Manufacturer (2021-2026) & (Unit)

Table 19. Production Market Share of Key Intelligent Grain Sampling Robot Producers in 2025

Table 20. World Intelligent Grain Sampling Robot Average Price by Manufacturer (2021-2026) & (K US\$/Unit)

Table 21. Global Intelligent Grain Sampling Robot Company Evaluation Quadrant

Table 22. World Intelligent Grain Sampling Robot Industry Rank of Major Manufacturers, Based on Production Value in 2025

Table 23. Head Office and Intelligent Grain Sampling Robot Production Site of Key Manufacturer

Table 24. Intelligent Grain Sampling Robot Market: Company Product Type Footprint

Table 25. Intelligent Grain Sampling Robot Market: Company Product Application Footprint

Table 26. Intelligent Grain Sampling Robot Competitive Factors

Table 27. Intelligent Grain Sampling Robot New Entrant and Capacity Expansion Plans

Table 28. Intelligent Grain Sampling Robot Mergers & Acquisitions Activity

Table 29. United States VS China Intelligent Grain Sampling Robot Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 30. United States VS China Intelligent Grain Sampling Robot Production Comparison, (2021 & 2025 & 2032) & (Unit)

Table 31. United States VS China Intelligent Grain Sampling Robot Consumption Comparison, (2021 & 2025 & 2032) & (Unit)

Table 32. United States Based Intelligent Grain Sampling Robot Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers Intelligent Grain Sampling Robot Production Value, (2021-2026) & (USD Million)

Table 34. United States Based Manufacturers Intelligent Grain Sampling Robot Production Value Market Share (2021-2026)

Table 35. United States Based Manufacturers Intelligent Grain Sampling Robot Production (2021-2026) & (Unit)

Table 36. United States Based Manufacturers Intelligent Grain Sampling Robot Production Market Share (2021-2026)

Table 37. China Based Intelligent Grain Sampling Robot Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers Intelligent Grain Sampling Robot Production Value, (2021-2026) & (USD Million)

Table 39. China Based Manufacturers Intelligent Grain Sampling Robot Production Value Market Share (2021-2026)

Table 40. China Based Manufacturers Intelligent Grain Sampling Robot Production, (2021-2026) & (Unit)

Table 41. China Based Manufacturers Intelligent Grain Sampling Robot Production Market Share (2021-2026)

Table 42. Rest of World Based Intelligent Grain Sampling Robot Manufacturers, Headquarters and Production Site (State, Country)

Table 43. Rest of World Based Manufacturers Intelligent Grain Sampling Robot Production Value, (2021-2026) & (USD Million)

Table 44. Rest of World Based Manufacturers Intelligent Grain Sampling Robot Production Value Market Share (2021-2026)

Table 45. Rest of World Based Manufacturers Intelligent Grain Sampling Robot Production, (2021-2026) & (Unit)

Table 46. Rest of World Based Manufacturers Intelligent Grain Sampling Robot Production Market Share (2021-2026)

Table 47. World Intelligent Grain Sampling Robot Production Value by Type, (USD Million), 2021 & 2025 & 2032

Table 48. World Intelligent Grain Sampling Robot Production by Type (2021-2026) & (Unit)

Table 49. World Intelligent Grain Sampling Robot Production by Type (2027-2032) & (Unit)

Table 50. World Intelligent Grain Sampling Robot Production Value by Type (2021-2026) & (USD Million)

Table 51. World Intelligent Grain Sampling Robot Production Value by Type (2027-2032) & (USD Million)

Table 52. World Intelligent Grain Sampling Robot Average Price by Type (2021-2026) & (K US\$/Unit)

Table 53. World Intelligent Grain Sampling Robot Average Price by Type (2027-2032) & (K US\$/Unit)

Table 54. World Intelligent Grain Sampling Robot Production Value by Sampling Object, (USD Million), 2021 & 2025 & 2032

Table 55. World Intelligent Grain Sampling Robot Production by Sampling Object (2021-2026) & (Unit)

Table 56. World Intelligent Grain Sampling Robot Production by Sampling Object (2027-2032) & (Unit)

Table 57. World Intelligent Grain Sampling Robot Production Value by Sampling Object (2021-2026) & (USD Million)

Table 58. World Intelligent Grain Sampling Robot Production Value by Sampling Object (2027-2032) & (USD Million)

Table 59. World Intelligent Grain Sampling Robot Average Price by Sampling Object (2021-2026) & (K US\$/Unit)

Table 60. World Intelligent Grain Sampling Robot Average Price by Sampling Object

(2027-2032) & (K US\$/Unit)

Table 61. World Intelligent Grain Sampling Robot Production Value by Probe Actuation Method, (USD Million), 2021 & 2025 & 2032

Table 62. World Intelligent Grain Sampling Robot Production by Probe Actuation Method (2021-2026) & (Unit)

Table 63. World Intelligent Grain Sampling Robot Production by Probe Actuation Method (2027-2032) & (Unit)

Table 64. World Intelligent Grain Sampling Robot Production Value by Probe Actuation Method (2021-2026) & (USD Million)

Table 65. World Intelligent Grain Sampling Robot Production Value by Probe Actuation Method (2027-2032) & (USD Million)

Table 66. World Intelligent Grain Sampling Robot Average Price by Probe Actuation Method (2021-2026) & (K US\$/Unit)

Table 67. World Intelligent Grain Sampling Robot Average Price by Probe Actuation Method (2027-2032) & (K US\$/Unit)

Table 68. World Intelligent Grain Sampling Robot Production Value by Application, (USD Million), 2021 & 2025 & 2032

Table 69. World Intelligent Grain Sampling Robot Production by Application (2021-2026) & (Unit)

Table 70. World Intelligent Grain Sampling Robot Production by Application (2027-2032) & (Unit)

Table 71. World Intelligent Grain Sampling Robot Production Value by Application (2021-2026) & (USD Million)

Table 72. World Intelligent Grain Sampling Robot Production Value by Application (2027-2032) & (USD Million)

Table 73. World Intelligent Grain Sampling Robot Average Price by Application (2021-2026) & (K US\$/Unit)

Table 74. World Intelligent Grain Sampling Robot Average Price by Application (2027-2032) & (K US\$/Unit)

Table 75. AGCO Corporation Basic Information, Manufacturing Base and Competitors

Table 76. AGCO Corporation Major Business

Table 77. AGCO Corporation Intelligent Grain Sampling Robot Product and Services

Table 78. AGCO Corporation Intelligent Grain Sampling Robot Production (Unit), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 79. AGCO Corporation Recent Developments/Updates

Table 80. AGCO Corporation Competitive Strengths & Weaknesses

Table 81. Gamet Manufacturing Basic Information, Manufacturing Base and Competitors

Table 82. Gamet Manufacturing Major Business

Table 83. Gamet Manufacturing Intelligent Grain Sampling Robot Product and Services

Table 84. Gamet Manufacturing Intelligent Grain Sampling Robot Production (Unit), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 85. Gamet Manufacturing Recent Developments/Updates

Table 86. Gamet Manufacturing Competitive Strengths & Weaknesses

Table 87. C.R. Manufacturing Basic Information, Manufacturing Base and Competitors

Table 88. C.R. Manufacturing Major Business

Table 89. C.R. Manufacturing Intelligent Grain Sampling Robot Product and Services

Table 90. C.R. Manufacturing Intelligent Grain Sampling Robot Production (Unit), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 91. C.R. Manufacturing Recent Developments/Updates

Table 92. C.R. Manufacturing Competitive Strengths & Weaknesses

Table 93. TEKPRO Ltd. Basic Information, Manufacturing Base and Competitors

Table 94. TEKPRO Ltd. Major Business

Table 95. TEKPRO Ltd. Intelligent Grain Sampling Robot Product and Services

Table 96. TEKPRO Ltd. Intelligent Grain Sampling Robot Production (Unit), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 97. TEKPRO Ltd. Recent Developments/Updates

Table 98. TEKPRO Ltd. Competitive Strengths & Weaknesses

Table 99. Pfeuffer GmbH Basic Information, Manufacturing Base and Competitors

Table 100. Pfeuffer GmbH Major Business

Table 101. Pfeuffer GmbH Intelligent Grain Sampling Robot Product and Services

Table 102. Pfeuffer GmbH Intelligent Grain Sampling Robot Production (Unit), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 103. Pfeuffer GmbH Recent Developments/Updates

Table 104. Pfeuffer GmbH Competitive Strengths & Weaknesses

Table 105. Bastak Instruments Basic Information, Manufacturing Base and Competitors

Table 106. Bastak Instruments Major Business

Table 107. Bastak Instruments Intelligent Grain Sampling Robot Product and Services

Table 108. Bastak Instruments Intelligent Grain Sampling Robot Production (Unit), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 109. Bastak Instruments Recent Developments/Updates

Table 110. Bastak Instruments Competitive Strengths & Weaknesses

Table 111. Abilitech Intelligent Technology (Beijing) Co., Ltd. Basic Information, Manufacturing Base and Competitors

Table 112. Abilitech Intelligent Technology (Beijing) Co., Ltd. Major Business

Table 113. Abilitech Intelligent Technology (Beijing) Co., Ltd. Intelligent Grain Sampling Robot Product and Services

Table 114. Abilitech Intelligent Technology (Beijing) Co., Ltd. Intelligent Grain Sampling Robot Production (Unit), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 115. Abilitech Intelligent Technology (Beijing) Co., Ltd. Recent Developments/Updates

Table 116. Abilitech Intelligent Technology (Beijing) Co., Ltd. Competitive Strengths & Weaknesses

Table 117. Shandong Jinzhong Technology Group Co., Ltd. Basic Information, Manufacturing Base and Competitors

Table 118. Shandong Jinzhong Technology Group Co., Ltd. Major Business

Table 119. Shandong Jinzhong Technology Group Co., Ltd. Intelligent Grain Sampling Robot Product and Services

Table 120. Shandong Jinzhong Technology Group Co., Ltd. Intelligent Grain Sampling Robot Production (Unit), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 121. Shandong Jinzhong Technology Group Co., Ltd. Recent Developments/Updates

Table 122. Shandong Jinzhong Technology Group Co., Ltd. Competitive Strengths & Weaknesses

Table 123. Jilin Sanhao Automation Machinery Co., Ltd. Basic Information, Manufacturing Base and Competitors

Table 124. Jilin Sanhao Automation Machinery Co., Ltd. Major Business

Table 125. Jilin Sanhao Automation Machinery Co., Ltd. Intelligent Grain Sampling Robot Product and Services

Table 126. Jilin Sanhao Automation Machinery Co., Ltd. Intelligent Grain Sampling Robot Production (Unit), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 127. Jilin Sanhao Automation Machinery Co., Ltd. Recent Developments/Updates

Table 128. Jilin Sanhao Automation Machinery Co., Ltd. Competitive Strengths & Weaknesses

Table 129. Crover Ltd Basic Information, Manufacturing Base and Competitors

Table 130. Crover Ltd Major Business

Table 131. Crover Ltd Intelligent Grain Sampling Robot Product and Services

Table 132. Crover Ltd Intelligent Grain Sampling Robot Production (Unit), Price (K

US\$/Unit), Production Value (USD Million), Gross Margin and Market Share
(2021-2026)

Table 133. Crover Ltd Recent Developments/Updates

Table 134. Crover Ltd Competitive Strengths & Weaknesses

Table 135. Global Key Players of Intelligent Grain Sampling Robot Upstream (Raw
Materials)

Table 136. Global Intelligent Grain Sampling Robot Typical Customers

Table 137. Intelligent Grain Sampling Robot Typical Distributors

List Of Figures

LIST OF FIGURES

Figure 1. Intelligent Grain Sampling Robot Picture

Figure 2. World Intelligent Grain Sampling Robot Production Value: 2021 & 2025 & 2032, (USD Million)

Figure 3. World Intelligent Grain Sampling Robot Production Value and Forecast (2021-2032) & (USD Million)

Figure 4. World Intelligent Grain Sampling Robot Production (2021-2032) & (Unit)

Figure 5. World Intelligent Grain Sampling Robot Average Price (2021-2032) & (K US\$/Unit)

Figure 6. World Intelligent Grain Sampling Robot Production Value Market Share by Region (2021-2032)

Figure 7. World Intelligent Grain Sampling Robot Production Market Share by Region (2021-2032)

Figure 8. North America Intelligent Grain Sampling Robot Production (2021-2032) & (Unit)

Figure 9. Europe Intelligent Grain Sampling Robot Production (2021-2032) & (Unit)

Figure 10. China Intelligent Grain Sampling Robot Production (2021-2032) & (Unit)

Figure 11. Japan Intelligent Grain Sampling Robot Production (2021-2032) & (Unit)

Figure 12. Intelligent Grain Sampling Robot Market Drivers

Figure 13. Factors Affecting Demand

Figure 14. World Intelligent Grain Sampling Robot Consumption (2021-2032) & (Unit)

Figure 15. World Intelligent Grain Sampling Robot Consumption Market Share by Region (2021-2032)

Figure 16. United States Intelligent Grain Sampling Robot Consumption (2021-2032) & (Unit)

Figure 17. China Intelligent Grain Sampling Robot Consumption (2021-2032) & (Unit)

Figure 18. Europe Intelligent Grain Sampling Robot Consumption (2021-2032) & (Unit)

Figure 19. Japan Intelligent Grain Sampling Robot Consumption (2021-2032) & (Unit)

Figure 20. South Korea Intelligent Grain Sampling Robot Consumption (2021-2032) & (Unit)

Figure 21. ASEAN Intelligent Grain Sampling Robot Consumption (2021-2032) & (Unit)

Figure 22. India Intelligent Grain Sampling Robot Consumption (2021-2032) & (Unit)

Figure 23. Producer Shipments of Intelligent Grain Sampling Robot by Manufacturer Revenue (\$MM) and Market Share (%): 2025

Figure 24. Global Four-firm Concentration Ratios (CR4) for Intelligent Grain Sampling Robot Markets in 2025

Figure 25. Global Four-firm Concentration Ratios (CR8) for Intelligent Grain Sampling Robot Markets in 2025

Figure 26. United States VS China: Intelligent Grain Sampling Robot Production Value Market Share Comparison (2021 & 2025 & 2032)

Figure 27. United States VS China: Intelligent Grain Sampling Robot Production Market Share Comparison (2021 & 2025 & 2032)

Figure 28. United States VS China: Intelligent Grain Sampling Robot Consumption Market Share Comparison (2021 & 2025 & 2032)

Figure 29. United States Based Manufacturers Intelligent Grain Sampling Robot Production Market Share 2025

Figure 30. China Based Manufacturers Intelligent Grain Sampling Robot Production Market Share 2025

Figure 31. Rest of World Based Manufacturers Intelligent Grain Sampling Robot Production Market Share 2025

Figure 32. World Intelligent Grain Sampling Robot Production Value by Type, (USD Million), 2021 & 2025 & 2032

Figure 33. World Intelligent Grain Sampling Robot Production Value Market Share by Type in 2025

Figure 34. Gantry Type Intelligent Sampling Robot

Figure 35. Fixed Automatic Truck Sampler

Figure 36. Multi Probe Intelligent Sampling System

Figure 37. Rail Mounted Sampling Robot

Figure 38. In Grain Autonomous Sampling Robot

Figure 39. Others

Figure 40. World Intelligent Grain Sampling Robot Production Market Share by Type (2021-2032)

Figure 41. World Intelligent Grain Sampling Robot Production Value Market Share by Type (2021-2032)

Figure 42. World Intelligent Grain Sampling Robot Average Price by Type (2021-2032) & (K US\$/Unit)

Figure 43. World Intelligent Grain Sampling Robot Production Value by Sampling Object, (USD Million), 2021 & 2025 & 2032

Figure 44. World Intelligent Grain Sampling Robot Production Value Market Share by Sampling Object in 2025

Figure 45. Truck Grain Sampling

Figure 46. Rail Wagon Grain Sampling

Figure 47. Bulk Storage Grain Sampling

Figure 48. Vessel or Barge Grain Sampling

Figure 49. Others

Figure 50. World Intelligent Grain Sampling Robot Production Market Share by Sampling Object (2021-2032)

Figure 51. World Intelligent Grain Sampling Robot Production Value Market Share by Sampling Object (2021-2032)

Figure 52. World Intelligent Grain Sampling Robot Average Price by Sampling Object (2021-2032) & (K US\$/Unit)

Figure 53. World Intelligent Grain Sampling Robot Production Value by Probe Actuation Method, (USD Million), 2021 & 2025 & 2032

Figure 54. World Intelligent Grain Sampling Robot Production Value Market Share by Probe Actuation Method in 2025

Figure 55. Hydraulic Probe Actuation

Figure 56. Electric Probe Actuation

Figure 57. Pneumatic Assisted Sampling

Figure 58. Hybrid Actuation

Figure 59. Others

Figure 60. World Intelligent Grain Sampling Robot Production Market Share by Probe Actuation Method (2021-2032)

Figure 61. World Intelligent Grain Sampling Robot Production Value Market Share by Probe Actuation Method (2021-2032)

Figure 62. World Intelligent Grain Sampling Robot Average Price by Probe Actuation Method (2021-2032) & (K US\$/Unit)

Figure 63. World Intelligent Grain Sampling Robot Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 64. World Intelligent Grain Sampling Robot Production Value Market Share by Application in 2025

Figure 65. Grain Reserve Industry

Figure 66. Grain Procurement and Trading Industry

Figure 67. Grain Processing Industry

Figure 68. Grain Logistics and Port Industry

Figure 69. Agricultural Testing and Supervision Industry

Figure 70. Others

Figure 71. World Intelligent Grain Sampling Robot Production Market Share by Application (2021-2032)

Figure 72. World Intelligent Grain Sampling Robot Production Value Market Share by Application (2021-2032)

Figure 73. World Intelligent Grain Sampling Robot Average Price by Application (2021-2032) & (K US\$/Unit)

Figure 74. Intelligent Grain Sampling Robot Industry Chain

Figure 75. Intelligent Grain Sampling Robot Procurement Model

Figure 76. Intelligent Grain Sampling Robot Sales Model

Figure 77. Intelligent Grain Sampling Robot Sales Channels, Direct Sales, and Distribution

Figure 78. Methodology

Figure 79. Research Process and Data Source

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