

Global Intelligent Grain Sampling Robot Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Intelligent Grain Sampling Robot market size was valued at US\$ 32.93 million in 2025 and is forecast to a readjusted size of US\$ 54.14 million by 2032 with a CAGR of 7.0% during review period.

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 is a detailed and comprehensive analysis for global Intelligent Grain Sampling Robot market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as

well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Intelligent Grain Sampling Robot market size and forecasts, in consumption value (\$ Million), sales quantity (Unit), and average selling prices (K US\$/Unit), 2021-2032

Global Intelligent Grain Sampling Robot market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Unit), and average selling prices (K US\$/Unit), 2021-2032

Global Intelligent Grain Sampling Robot market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Unit), and average selling prices (K US\$/Unit), 2021-2032

Global Intelligent Grain Sampling Robot market shares of main players, shipments in revenue (\$ Million), sales quantity (Unit), and ASP (K US\$/Unit), 2021-2026

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Intelligent Grain Sampling Robot

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Intelligent Grain Sampling Robot market based on the following parameters - company overview, sales quantity, revenue, 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.

Market Segmentation

Intelligent Grain Sampling Robot market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment 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

Market segment by Sampling Object

Truck Grain Sampling

Rail Wagon Grain Sampling

Bulk Storage Grain Sampling

Vessel or Barge Grain Sampling

Others

Market segment by Probe Actuation Method

Hydraulic Probe Actuation

Electric Probe Actuation

Pneumatic Assisted Sampling

Hybrid Actuation

Others

Market segment by Application

Grain Reserve Industry

Grain Procurement and Trading Industry

Grain Processing Industry

Grain Logistics and Port Industry

Agricultural Testing and Supervision Industry

Others

Major players covered

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

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Intelligent Grain Sampling Robot product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Intelligent Grain Sampling Robot, with price, sales quantity, revenue, and global market share of Intelligent Grain Sampling Robot from 2021 to 2026.

Chapter 3, the Intelligent Grain Sampling Robot competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Intelligent Grain Sampling Robot breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and Intelligent Grain Sampling Robot market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Intelligent Grain Sampling Robot.

Chapter 14 and 15, to describe Intelligent Grain Sampling Robot sales channel, distributors, customers, research findings and conclusion.

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