

Grains Silo & Storage Systems Market – Global Industry Size, Share, Trends, Opportunity, & Forecast, Segmented By Silo Type (Flat Bottom Silos, Hopper Silos, Grains Bins, Others), By Commodity Type (Rice, Maize, Wheat, Soyabean, Sunflower, Others), By Region and Competition, 2020-2030F

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Abstracts

Global Grains Silo & Storage Systems Market was valued at USD 2.24 billion in 2024 and is expected to reach USD 2.78 billion by 2030 with a CAGR of 3.67% during the forecast period. Global Grains Silo & Storage Systems Market stands at the intersection of innovation, challenges, and opportunities. Addressing climate variability, navigating regulatory landscapes, and implementing effective pest management are crucial for the industry's sustained growth. Simultaneously, the market thrives on the increasing demand for grains, the modernization of agriculture, and global initiatives promoting food security. As technology continues to advance, the grains storage sector must remain agile and proactive, contributing to a world where the bounty of the harvest is efficiently stored, safeguarded, and accessible to meet the needs of a growing population.

According to the Global Agricultural Information Network under the National Agricultural Statistics Service (NASS) of the U.S. Department of Agriculture, on-farm storage in the U.S. reached 15.58 billion bushels in 2022, with Iowa alone contributing 2.05 billion bushels. Additionally, off-farm grain storage in the U.S. was recorded at 11.822 billion bushels in December 2022, showing a slight increase from 11.817 billion bushels in the previous year. This rise in storage capacity reflects the growth in grain production. As production continues to increase, the demand for storage is expected to be met by the addition of more silos, further boosting this segment.



Key Market Drivers

Population Growth

The burgeoning population translates to heightened demand for staple grains like wheat, rice, and corn, prompting agricultural sectors to boost production to meet consumption requirements. This surge in grain production, however, necessitates robust storage infrastructure to ensure the preservation of harvests and prevent postharvest losses. Grains silo and storage systems emerge as the linchpin in addressing this challenge, offering a controlled and secure environment for storing vast quantities of grains. These systems not only act as a buffer against supply chain disruptions but also enable farmers and agribusinesses to strategically manage their produce to meet the escalating global demand.

According to World Bank data, the global population, which reached 8.02 billion in 2023, is expected to grow to 9.7 billion by 2050. As the population continues to rise and agricultural demands evolve, the need for efficient grain storage solutions becomes even more crucial. Furthermore, the globalization of food supply chains amplifies the importance of efficient storage solutions. Grains silo systems play a pivotal role in facilitating the seamless movement of grains across borders, ensuring a stable and resilient supply chain in the face of varying climatic conditions and geopolitical challenges.

Key Market Challenges

Climate Variability

The Global Grains Silo & Storage Systems Market faces a formidable adversary in the form of climate variability, a challenge that reverberates throughout the entire supply chain. As the climate becomes increasingly unpredictable, the storage of grains encounters hurdles that demand innovative solutions. Extreme temperatures, fluctuating humidity levels, and unpredictable weather patterns pose a direct threat to the quality and safety of stored grains. Traditional storage systems designed for stable climates are now grappling with the need to adapt to these dynamic conditions. The heightened risk of spoilage, mold, and infestations necessitates a paradigm shift in storage practices.

Furthermore, the frequency and intensity of extreme weather events, such as storms and floods, expose grains stored in silos to potential damage. Reinforcing storage



infrastructure to withstand these environmental challenges becomes imperative, adding a layer of complexity to the industry. Addressing climate variability requires the integration of advanced technologies into grain storage systems. Climate-controlled silos, real-time monitoring systems, and precision agriculture techniques offer promising avenues for mitigating the impact of climate change on stored grains. However, the implementation of such solutions comes with its own set of challenges, including high upfront costs and the need for continuous adaptation to evolving climate patterns.

Key Market Trends

Adoption of IoT and Automation

In a paradigm shift for the Grains Silo & Storage Systems Market, the adoption of Internet of Things (IoT) and automation emerges as a transformative force, reshaping the industry's landscape and enhancing operational efficiency. These advanced technologies bring a wave of innovation, providing real-time insights and control over grain storage facilities. IoT technologies enable the integration of smart sensors within storage systems, facilitating continuous monitoring of environmental conditions such as temperature, humidity, and pest activity. This real-time data is then leveraged to optimize storage conditions, ensuring grains are preserved at their highest quality. Automated systems take this a step further, allowing for precision control and immediate responses to fluctuations, reducing the risk of post-harvest losses.

The seamless connectivity afforded by IoT empowers stakeholders to remotely monitor and manage storage facilities, providing unparalleled flexibility and efficiency. With automated alerts and predictive maintenance capabilities, potential issues can be identified and addressed proactively, minimizing downtime and maximizing operational continuity. Furthermore, the adoption of IoT and automation aligns with broader industry trends toward sustainability. By optimizing resource usage and reducing waste, these technologies contribute to a more environmentally conscious approach to grain storage.

Key Market Players

AGCO Corporation

Silos Cordoba

Prado Silos



Bentall Rowlands Silo Storage Ltd

Sukup Manufacturing Company

Brock Grains Systems

Hoffmann Inc

Sioux Steel Company

Prive SA

Behlen Manufacturing Company

Report Scope:

In this report, the Global Grains Silo & Storage Systems Market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

Grains Silo & Storage Systems Market, By Silo Type:

Flat Bottom Silos

Hopper Silos

Grains Bins

Others

Grains Silo & Storage Systems Market, By Commodity Type:

Rice

Maize

Wheat



Soyabean

Sunflower

Others

Grains Silo & Storage Systems Market, By Region:

North America

United States

Canada

Mexico

Europe

France

United Kingdom

Italy

Germany

Spain

Asia-Pacific

China

India

Japan

Australia

South Korea



South America

Brazil

Argentina

Colombia

Middle East & Africa

South Africa

Saudi Arabia

UAE

Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the Global Grains Silo & Storage Systems Market.

Available Customizations:

Global Grains Silo & Storage Systems market report with the given market data, TechSci Research offers customizations according to a company's specific needs. The following customization options are available for the report:

Company Information

Detailed analysis and profiling of additional market players (up to five).



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