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Mobile Grain Dryer Market Forecasts to 2030 – Global Analysis By Product Type (Batch Dryers, Continuous Flow Dryers and Mixed Flow Dryers), Fuel Type (Diesel, Gas and Electric), Capacity, Grain Type, Application and By Geography

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Abstracts

According to Stratistics MRC, the Global Mobile Grain Dryer Market is accounted for $156.35 million in 2024 and is expected to reach $227.50 million by 2030 growing at a CAGR of 6.45% during the forecast period. An important agricultural tool for effectively lowering the moisture content of harvested grains for improved storage and quality preservation is a mobile grain dryer. The flexibility of mobile grain dryers, as opposed to stationary dryers, enables farmers to transport the device straight to the field or storage location, cutting down on post-harvest losses and transportation expenses. Moreover, these dryers operate on fuels such as electricity, diesel, or propane and employ advanced drying technologies such as batch or continuous flow drying systems. In order to maximize drying efficiency while reducing fuel consumption, many contemporary mobile grain dryers are outfitted with temperature sensors, automated controls, and energy-efficient designs.

According to the U.S. Department of Agriculture's Economic Research Service, the 2024/25 U.S. coarse grains outlook anticipates reduced supplies, primarily due to a decrease in expected corn production.

Market Dynamics:

Driver:

Growing need for superior grains

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High-quality grains with the ideal moisture content are becoming more and more in demand from consumers and regulatory agencies to guarantee food safety and processing effectiveness. Grain that is too wet may clump, be difficult to mill, and become contaminated by microorganisms, which will lower its market value. Farmers can satisfy the moisture standards set by food processors, millers, and exporters by using mobile grain dryers. Additionally, the ability to effectively dry grains is crucial for preserving international trade relationships and avoiding shipment rejections owing to moisture-related quality issues in nations with stringent grain export regulations.

Restraint:

Expensive start-up and ongoing expenses

A major obstacle for many farmers, especially those in developing nations, is the initial cost of buying mobile grain dryers, especially those with sophisticated automation and energy-saving features. The financial burden is increased by ongoing expenses like fuel consumption (propane, diesel, or biomass), maintenance, and labor costs in addition to the initial investment. Furthermore, small and medium-sized farmers may be discouraged from investing in these drying systems due to the unpredictable nature of operating costs caused by fluctuating fuel prices. Although the increased efficiency of modern grain dryers results in long-term cost savings, the initial cost barrier still prevents widespread adoption.

Opportunity:

Growing use of eco-friendly and energy-efficient drying solutions

Energy-efficient and ecologically friendly grain drying technologies are becoming more and more in demand as worries about carbon emissions and fuel prices grow. Grain dryers that run on biomass, solar, or hybrid power are being developed by manufacturers to lessen reliance on fossil fuels and provide long-term cost savings. In rural regions with limited access to conventional fuels, biomass-based grain dryers—which run on agricultural waste—are becoming more and more popular. Moreover, even though they are still in their infancy, solar-powered dryers have a lot of promise for areas like Africa and some parts of Asia that receive a lot of sunlight.

Threat:

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Competition from other drying techniques and technologies

The market for mobile grain dryers is seriously threatened by alternative drying methods such as solar drying, fixed grain dryers, and cooperative drying facilities. Large-scale grain processing operations prefer fixed dryers because of their increased capacity, automation features, and higher efficiency. Even though it takes longer, solar drying is sometimes seen as an economical and sustainable choice for small-scale farmers. Furthermore, centralized drying facilities eliminate the need for separate mobile dryers, which lowers demand in cooperative farming models. The potential for growth of mobile grain dryers may be diminished if alternative drying solutions develop further and become more widely available.

Covid-19 Impact:

The COVID-19 pandemic had a mixed effect on the market for mobile grain dryers, causing supply chains to be disrupted while also raising awareness of effective post-harvest grain management. Production and distribution temporarily slowed down due to manufacturing delays, shortages of raw materials, and transportation restrictions, and capital investments in mechanized drying solutions were delayed in some regions due to economic uncertainty and lower farmer incomes. However, the pandemic also brought attention to the vulnerabilities of global food supply chains, which resulted in a greater focus on food security, a decrease in post-harvest losses, and efficient grain storage. In turn, farmers sought self-sufficient, decentralized drying technologies to reduce logistical challenges and minimize reliance on shared drying facilities.

The Continuous Flow Dryers segment is expected to be the largest during the forecast period

The Continuous Flow Dryers segment is expected to account for the largest market share during the forecast period. Continuous grain movement through the drying chamber enables a consistent and even drying process in these dryers. This technique guarantees steady moisture reduction and preserves grain quality, making it especially beneficial for commercial grain processing facilities and large-scale farming operations. Farmers and agribusinesses favor continuous flow dryers because of their ability to handle large amounts of grain effectively. Moreover, these dryers offer lower energy consumption, automated moisture control, quicker drying times, improved fuel efficiency, and smooth integration with contemporary handling and storage systems.

The Electric segment is expected to have the highest CAGR during the forecast period

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Over the forecast period, the Electric segment is predicted to witness the highest growth rate. The adoption of eco-friendly technologies and the agricultural sector's growing emphasis on sustainability are the main drivers of this upsurge. In line with international environmental initiatives, electric grain dryers have a number of benefits, such as lower emissions, less noise during operation, and a diminished reliance on fossil fuels. Additionally, they are a desirable alternative for contemporary farming operations looking to maximize efficiency and comply with environmental regulations because of their capacity to precisely regulate temperature, which improves grain quality and lowers spoilage.

Region with largest share:

During the forecast period, the North America region is expected to hold the largest market share. The region's sophisticated farming methods, widespread use of mechanized farming equipment, and large investments in post-harvest grain management technologies are all responsible for this dominance. Furthermore, the market's expansion in this area is also fueled by the existence of top grain dryer producers, government assistance initiatives, and advantageous laws supporting sustainable agriculture. Adoption rates are also being accelerated by the growing trend toward automated, fuel-efficient, and electric-powered drying systems.

Region with highest CAGR:

Over the forecast period, the Asia-Pacific region is anticipated to exhibit the highest CAGR. With nations like China, India, and Indonesia producing large amounts of rice, wheat, and other crops, the region's sizable agricultural sector is the main driver of this fast growth. About 90% of the world's rice is produced in Asia, according to the Food and Agriculture Organization (FAO). In the Asia-Pacific area, the substantial post-harvest losses that impact agricultural productivity are becoming more widely acknowledged. Moreover, the demand for mobile grain dryers is rising as a result of this awareness since they help farmers effectively control moisture levels and minimize spoiling, enhancing regional food security overall.

Key players in the market

Some of the key players in Mobile Grain Dryer market include AGCO Corporation, GSI (Grain Systems, Inc.), Buhler Group, Cimbria Inc, Mathews Company, Alvan Blanch Development Company Ltd., CFCAI Group, Zaffrani S.r.l., Sukup Manufacturing Co.,

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Mecmar S.p.A., Bauer AG, Fratelli Pedrotti S.r.l., NECO Equipment, Pedrotti S.r.l. and Stela Laxhuber GmbH.

Key Developments:

In July 2024, AGCO Corporation announced it has entered into a definitive agreement to sell the majority of its Grain & Protein business to American Industrial Partners ('AIP') in an all-cash transaction valued at $700 million, subject to working capital and other customary closing adjustments.

In June 2021, Switzerland’s Buhler Group and Germany’s Hosokawa Alpine Group have agreed a strategic collaboration that will accelerate and strengthen the production of healthier and more sustainable plant protein solutions with a focus on processing pulses into protein ingredients.

In April 2017, Sukup Manufacturing Co. is expanding its building product line with the acquisition of Pennsylvania-based SBC Building Systems. Sukup started out with a grain stirring machine in 1963 but has since expanded into grain bins, dryers, material handling equipment, and preengineered metal buildings.

Product Types Covered:

- Batch Dryers
- Continuous Flow Dryers
- Mixed Flow Dryers

Fuel Types Covered:

- Diesel
- Gas
- Electric

Capacities Covered:

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- Below 10 MT/h
- 10-20 MT/h
- 20-30 MT/h
- Above 30 MT/h

Grain Types Covered:

- Corn
- Wheat
- Rice
- Other Grain Types

Applications Covered:

- Cereals Drying
- Pulses Drying
- Oil Seeds Drying

Regions Covered:

- North America
  - US
  - Canada
  - Mexico

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  - UK
  - Italy
  - France
  - Spain
  - Rest of Europe
- Asia Pacific
  - Japan
  - China
  - India
  - Australia
  - New Zealand
  - South Korea
  - Rest of Asia Pacific
- South America
  - Argentina
  - Brazil
  - Chile
  - Rest of South America

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Middle East & Africa

Saudi Arabia

UAE

Qatar

South Africa

Rest of Middle East & Africa

What our report offers:
- Market share assessments for the regional and country-level segments
- Strategic recommendations for the new entrants
- Covers Market data for the years 2022, 2023, 2024, 2026, and 2030
- Market Trends (Drivers, Constraints, Opportunities, Threats, Challenges, Investment Opportunities, and recommendations)
- Strategic recommendations in key business segments based on the market estimations
- Competitive landscaping mapping the key common trends
- Company profiling with detailed strategies, financials, and recent developments
- Supply chain trends mapping the latest technological advancements

Free Customization Offerings:

All the customers of this report will be entitled to receive one of the following free customization options:

Company Profiling

Comprehensive profiling of additional market players (up to 3)

SWOT Analysis of key players (up to 3)

Regional Segmentation

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Market estimations, Forecasts and CAGR of any prominent country as per the client's interest (Note: Depends on feasibility check)

Competitive Benchmarking

Benchmarking of key players based on product portfolio, geographical presence, and strategic alliances

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