

Feed Pallet Machine Market - Global Industry Size, Share, Trends, Opportunity, and Forecast, Segmented, By Machine Type (Vertical Feed Pallet Machine, Horizontal Feed Pallet Machine), By Material Type (Wood, Bamboo, Other Plant Materials), By End Product Form (Pellets, Logs, Blocks), By Automation Level (Manual, Semi-Automatic, Fully Automatic), By Region & Competition, 2021-2031F

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Abstracts

The Global Feed Pellet Machine Market is projected to expand from USD 2.15 Billion in 2025 to USD 3.86 Billion by 2031, registering a CAGR of 10.24%. A feed pellet machine is specialized industrial equipment designed to compress powdered organic ingredients into dense, uniform pellets, thereby improving nutritional absorption and handling efficiency for livestock. The market is primarily driven by the increasing global demand for animal protein, which necessitates industrial-scale farming and optimized feed conversion ratios to meet supply requirements. Furthermore, the growing automation of agricultural facilities fuels the demand for machinery capable of producing consistent, durable feed. Highlighting the scale of production, the China Feed Industry Association reported that national industrial feed output reached 321.62 million tons in 2023, emphasizing the need for reliable processing technology.

However, market growth is hindered by high operational costs, particularly related to energy consumption. The pelletizing process is power-intensive, and fluctuating energy prices can significantly erode profit margins for manufacturers. This financial burden often discourages smaller agribusinesses from upgrading to newer, more efficient infrastructure, thereby slowing the broader adoption of advanced machinery. As a

result, the challenge of maintaining profitability amidst rising utility costs remains a key restraint on market expansion.

Market Driver

The rising global consumption of meat and animal-based protein acts as the primary catalyst for the Global Feed Pellet Machine Market, necessitating a transition toward industrial-scale feed manufacturing to ensure nutrient density and food safety. As populations grow and dietary habits evolve, the pressure on the livestock sector to maximize yield per unit of feed intensifies, compelling producers to adopt advanced pelletizing machinery that guarantees high conversion ratios. This demand is reflected in production volumes; according to Alltech's '2025 Agri-Food Outlook' (April 2025), global feed production rebounded to 1.396 billion metric tons in 2024. Established markets also continue to drive demand through replacement cycles, with the European Feed Manufacturers' Federation (FEFAC) forecasting EU-27 compound feed production to reach 146.1 million tonnes in 2025.

The rapid expansion of the aquaculture and aquatic feed sector further propels market growth, specifically driving demand for specialized extrusion and pelletizing equipment that controls buoyancy and water stability. Unlike traditional livestock feed, aquatic species require pellets with specific floating or sinking properties to reduce waste, a requirement that stimulates technical innovation in feed machinery. The sector's robust growth is evident in the performance of major industry players; Mowi's 'Annual Report 2024' (March 2025) reported record feed division sales of 585,000 tonnes in 2024, a 12% year-on-year increase. This surge in aquatic feed consumption directly correlates with increased investment in specialized processing lines, creating a lucrative segment for equipment manufacturers.

Market Challenge

High operational costs, primarily driven by substantial energy consumption, constitute a critical barrier to the expansion of the Global Feed Pellet Machine Market. The pelletizing process is inherently energy-intensive, requiring continuous power to operate heavy compression machinery. When energy prices fluctuate or rise significantly, operating expenses for feed manufacturers increase drastically, directly eroding profit margins. This financial instability makes agribusinesses, particularly smaller facilities with limited capital, hesitant to invest in modernizing their equipment or expanding their production lines with new machinery.

Consequently, this cost burden creates a market environment where potential buyers delay capital expenditures, hampering the broader adoption of advanced processing technology. This trend of hesitation and market stagnation is evident in recent industry figures. According to the European Feed Manufacturers' Federation (FEFAC), in 2024, industrial compound feed production in the EU-27 was projected to reach approximately 147 million tons, reflecting a flat growth trajectory attributed to persistent adverse economic conditions. Such stagnation in production volumes significantly dampens the demand for new feed pellet machines, as manufacturers prioritize cost containment over capacity expansion.

Market Trends

The integration of IoT and smart sensors for real-time process monitoring is revolutionizing the market by enabling feed mills to transition from static operations to fully connected, intelligent systems. This technological evolution allows manufacturers to utilize advanced data analytics to optimize pellet quality and minimize downtime, thereby creating a robust revenue stream for providers of digital support services and automated infrastructure. This growing reliance on connected processing solutions is evident in the financial results of major industry technology providers. According to Buhler Group's 'Annual Report 2024' (February 2025), the company's Customer Service business, which encompasses digital process solutions and remote maintenance, achieved a turnover of CHF 1,057 million, representing a significant 9.4% increase year-on-year driven by the demand for efficiency-enhancing retrofits.

Concurrently, the shift toward energy-efficient direct-drive transmission systems is gaining momentum as producers prioritize decarbonization and operational cost reduction. This trend is propelling substantial capital allocation toward machinery upgrades that lower energy intensity, moving the industry away from traditional belt-driven units to more sustainable, high-efficiency configurations. Leading agribusinesses are actively funding these environmental improvements to meet stringent climate goals, directly influencing machinery procurement strategies. For instance, according to Cargill's '2024 Impact Report' (November 2024), the company invested \$100 million specifically in efficiency and sustainability projects within its operations, a strategic move that contributed to a 15.8% reduction in its operational greenhouse gas emissions and underscored the market's focus on green technology.

Key Market Players

Henan Richi Machinery Co.,LTD

Weifang Sun Food Machinery Co.,Ltd.

Zhengzhou Dingheng Electronic Technology Co.,Ltd

Jiangsu Huazhong Roll Forming Machine Co.,Ltd.

Van Aarsen International BV

Buhler AG

Guangxi Yuchai Equipment Technology Co., Ltd

CPM International

Report Scope

In this report, the Global Feed Pallet Machine Market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

Feed Pallet Machine Market, By Machine Type

Vertical Feed Pallet Machine

Horizontal Feed Pallet Machine

Feed Pallet Machine Market, By Material Type

Wood

Bamboo

Other Plant Materials

Feed Pallet Machine Market, By End Product Form

Pellets

Logs

Blocks

Feed Pallet Machine Market, By Automation Level

Manual

Semi-Automatic

Fully Automatic

Feed Pallet Machine 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 Feed Pallet Machine Market.

Available Customizations:

Global Feed Pallet Machine 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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