

# **Insect Protein Processing Equipment Market Opportunity, Growth Drivers, Industry Trend Analysis, and Forecast 2025 - 2034**

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## **Abstracts**

The Global Insect Protein Processing Equipment Market was valued at USD 185.8 million in 2024 and is estimated to grow at a CAGR of 31.1% to reach USD 3.3 billion by 2034.

Rapid expansion across sectors such as aquaculture, animal feed, pet food, and human consumption is creating significant demand for scalable, efficient insect protein processing systems. Equipment providers are receiving increased orders from both emerging startups and established agro-industrial groups as insect-based nutrition continues gaining ground. This growth closely mirrors broader sustainability trends in agriculture and food production. Advanced processing equipment is becoming essential as the sector shifts toward safe, high-yield, and quality-driven insect-based ingredients. Manufacturers are responding to the need for systems that deliver precision, reduce energy consumption, and comply with strict safety and traceability protocols, particularly in markets such as Japan and the EU. As automation, AI, and energy-monitoring features are integrated into next-gen machines, facilities are becoming more efficient, sustainable, and economically viable.

The drying equipment segment generated USD 65.1 million in 2024 and is projected to reach USD 1.1 billion by 2034, with a CAGR of 31.2%. This segment leads due to its critical function in preserving protein integrity, microbial safety, and overall product shelf life. Vacuum and freeze dryers are seeing high demand for their ability to maintain bioactivity and protein concentration, especially in products targeted for human nutrition and high-value applications. Though energy-intensive, these systems support superior output quality and longer shelf stability, justifying their growing use in nutraceuticals and food-grade insect products.

The animal feed applications segment held 46.1% share in 2024, remaining the most mature and commercialized segment. As livestock nutrition markets adopt insect protein at scale, installations of oil recovery, grinding, and drying equipment in feed manufacturing plants continue to rise.

Canada Insect Protein Processing Equipment Market held a significant share in 2024, driven by the insect protein processing through focused government support. Investments in R&D and sustainable food systems are prompting the expansion of insect protein facilities across the country. Consumer preferences for clean-label and sustainable protein sources are also accelerating the development of human-grade insect protein production systems, like trends seen in the United States.

Leading companies in the Insect Protein Processing Equipment Market include GEA Group AG, B?hler Holding AG, ANDRITZ Group, Maschinenfabrik Reinartz GmbH & Co. KG, and Marel. Key players in the insect protein processing equipment industry are focusing on integrating smart automation, AI-based monitoring, and energy-efficient systems to enhance process yields and sustainability. Companies are designing modular systems that can be tailored for different insects and scale levels, ensuring flexibility for both large manufacturers and emerging players. There is growing investment in solvent-free oil separation and closed-loop extraction systems to preserve nutrient quality in insect-derived oils and peptides.

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