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Global Micro Loss-in-Weight Feeders Supply, Demand and Key Producers, 2026-2032

https://marketpublishers.com/r/G131EC859F01EN.html
Date: June 2026
Pages: 152
Price: US$ 4,480.00 (Single User License)
ID: G131EC859F01EN

Abstracts

The global Micro Loss-in-Weight Feeders market size is expected to reach $ 404 million by 2032, rising at a market growth of 6.7% CAGR during the forecast period (2026-2032).

Micro Loss-in-Weight Feeders are high-precision gravimetric feeding devices used for continuous and accurate dosing of small quantities of powders, granules, flakes, short fibers, liquids or paste additives. A typical unit consists of a micro hopper, load cells, single-screw, twin-screw or vibratory feeding mechanism, refill device, drive motor, PLC/HMI and closed-loop control software, maintaining a stable mass flow by continuously monitoring the reduction in hopper weight and adjusting the feeding speed in real time. Key upstream inputs include stainless steel structures, precision-machined parts, load cells, servo or stepper motors, gearboxes, screws, vibrators, controllers, inverters, sealing components and food-grade or pharmaceutical-grade contact materials. Major downstream customers include plastics compounding and extrusion, masterbatch and additive dosing, food and feed micro-ingredient formulation, pharmaceutical continuous manufacturing, fine chemicals, functional powders, and laboratory or pilot-scale production lines. On an ex-factory equipment basis, global design capacity in 2025 is estimated at about 32,000 units, with sales of around 23,100 units, an average ex-factory price of about USD 10,800 per unit and an industry gross margin of roughly 32%–48%; standard Asian models are generally lower-priced, while high-accuracy, hygienic, pharmaceutical-grade and multi-component integrated systems from Europe, the U.S. and Japan command higher prices and margins.

The current market for micro loss-in-weight feeders is moving from standalone dosing equipment toward a key process-control unit in continuous production lines. Industries such as plastics compounding, masterbatch dosing, food micro-ingredient formulation,

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feed nutrition, fine chemicals and pharmaceutical continuous manufacturing are placing higher requirements on stable dosing of low-ratio ingredients. This is driving customers to upgrade from volumetric feeding, manual batching and batch weighing to closed-loop gravimetric dosing solutions. European, U.S. and Japanese suppliers remain strong in high-accuracy, hygienic, pharmaceutical-grade and complex material-handling applications, while Chinese and other Asian manufacturers are expanding faster in standard powder processing, plastics auxiliary equipment and localized projects. The market is therefore characterized by stable high-end demand, expanding mid-range applications and intensifying price competition in the lower-end segment. Future growth will be mainly supported by more refined and automated downstream production processes. For high-value additives, functional powders, pharmaceutical excipients, vitamins, flavors, masterbatches and polymer modifiers, small dosing deviations can directly affect product performance, batch consistency and raw material loss. As a result, customers are paying greater attention to continuous stability, recipe traceability and automated control. As food, pharmaceutical, chemical and materials companies strengthen quality management, reduce manual intervention and build digital factories, micro loss-in-weight feeders will be increasingly integrated with mixing systems, extrusion lines, continuous pharmaceutical systems, central dosing systems and production management software. In terms of product development, the main upgrade directions will focus on lower feed rates, higher control accuracy, stronger material adaptability and easier cleaning and maintenance. Material issues such as bridging, moisture absorption, low bulk density, electrostatic behavior and adhesion remain key challenges in equipment selection and commissioning. Therefore, screw design, agitation and anti-bridging structures, vibration compensation, weighing signal filtering and refill disturbance suppression will become important sources of supplier differentiation. In pharmaceutical and food applications, demand for hygienic design, quick disassembly, low residue, validation documentation and compliance support will also push equipment suppliers to compete more on process solutions and long-term service capabilities rather than hardware alone. Key market constraints include relatively high initial investment, fragmented customer applications, long material testing cycles and insufficient recognition of precision dosing value among some small and medium-sized customers. In the lower-end market, price competition remains intense, and some customers will continue to choose volumetric feeders or simplified batching systems to reduce costs, which limits the penetration speed of higher-end equipment. At the same time, micro loss-in-weight feeders require strong capabilities in load cells, control algorithms, machining accuracy and field commissioning. Smaller suppliers still need to accumulate stable references, validation data and after-sales service capabilities before entering premium customer systems, so the global competitive landscape is expected to remain clearly tiered in the near term.

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This report studies the global Micro Loss-in-Weight Feeders production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Micro Loss-in-Weight Feeders and provides market size (US$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Micro Loss-in-Weight Feeders that contribute to its increasing demand across many markets.

Highlights and key features of the study
Global Micro Loss-in-Weight Feeders total production and demand, 2021-2032, (Units)
Global Micro Loss-in-Weight Feeders total production value, 2021-2032, (USD Million)
Global Micro Loss-in-Weight Feeders production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)
Global Micro Loss-in-Weight Feeders consumption by region & country, CAGR, 2021-2032 & (Units)
U.S. VS China: Micro Loss-in-Weight Feeders domestic production, consumption, key domestic manufacturers and share
Global Micro Loss-in-Weight Feeders production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)
Global Micro Loss-in-Weight Feeders production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Units)
Global Micro Loss-in-Weight Feeders production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global Micro Loss-in-Weight Feeders market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Coperion, Qlar, Kubota, AZO, WAMGROUP, Motan Group, Piovan Group, Acrison, Thayer Scale, Gericke Group, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Micro Loss-in-Weight Feeders market

Detailed Segmentation:

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Each section contains quantitative market data including market by value (US$ Millions), volume (production, consumption) & (Units) and average price (US$/Unit) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Micro Loss-in-Weight Feeders Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Micro Loss-in-Weight Feeders Market, Segmentation by Type:

Single-Screw Type

Twin-Screw Type

Vibratory Type

Other

Global Micro Loss-in-Weight Feeders Market, Segmentation by Feed Rate Range:

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Ultra-Micro Flow (Below 100 g/h)

Micro Flow (100 g/h–5 kg/h)

Low Flow (5–50 kg/h)

Medium Flow (Above 50 kg/h)

Global Micro Loss-in-Weight Feeders Market, Segmentation by Material Form:

Powder

Granules and Pellets

Other

Global Micro Loss-in-Weight Feeders Market, Segmentation by Application:

Plastics and Polymer Processing

Food and Feed Processing

Pharmaceutical Manufacturing

Chemicals and Functional Materials

Other

Companies Profiled:

Coperion

Qlar

Kubota

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AZO

WAMGROUP

Motan Group

Piovan Group

Acrison

Thayer Scale

Gericke Group

Funken Powtechs

Movacolor

Novatec

Wuxi Lingood Machinery Technology

Shanghai Sonner Intelligent Equipment

Guangdong High Dream Intellectualized Machinery

Key Questions Answered:
1. How big is the global Micro Loss-in-Weight Feeders market?
2. What is the demand of the global Micro Loss-in-Weight Feeders market?
3. What is the year over year growth of the global Micro Loss-in-Weight Feeders market?
4. What is the production and production value of the global Micro Loss-in-Weight Feeders market?
5. Who are the key producers in the global Micro Loss-in-Weight Feeders market?
6. What are the growth factors driving the market demand?

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