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Global Screw Loss-in-Weight Feeder Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Screw Loss-in-Weight Feeder market size is expected to reach $ 721 million by 2032, rising at a market growth of 6.0% CAGR during the forecast period (2026-2032).

Screw Loss-in-Weight Feeder is a continuous gravimetric feeding device that uses a single-screw or twin-screw mechanism as the core metering element, combined with weighing feedback and closed-loop control to deliver powders, granules, flakes, short fibers and selected difficult-flowing bulk solids at a stable and accurate mass flow rate. A typical system consists of a hopper, load cells, a single-screw or twin-screw feeding mechanism, agitator or anti-bridging device, refill unit, drive motor, gear reducer, PLC/HMI and closed-loop control software, continuously measuring the rate of weight loss in the hopper and dynamically adjusting screw speed to maintain consistent, traceable dosing performance. Key upstream inputs include stainless steel and carbon steel fabricated parts, precision screws, machined components, load cells, servo or stepper motors, gear reducers, controllers, inverters, seals, bearings, hoppers and food-grade or pharmaceutical-grade contact materials. Major downstream customers include plastics compounding and extrusion companies, masterbatch and additive dosing users, engineering plastics producers, battery material manufacturers, food and feed ingredient processors, fine chemical companies, rubber additive producers, powder handling system integrators and pharmaceutical continuous manufacturing users. On an equipment-body ex-factory basis, global designed production capacity of screw loss-in-weight feeders in 2025 is estimated at about 46,000 units, with sales volume of approximately 33,800 units, an average ex-factory price of about USD 13,800 per unit and an industry gross margin range of around 28%–43%. Standard Chinese and Asian single-screw and twin-screw models are generally priced lower, while European, US and Japanese high-accuracy, hygienic, explosion-proof, wear-resistant and multi-

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component integrated models command higher unit prices and stronger margins.

The current market for screw loss-in-weight feeders has moved beyond traditional plastics auxiliary equipment and general chemical dosing machinery, becoming an important process unit in automated and precision-controlled production lines. European, US and Japanese suppliers still hold advantages in high-accuracy control, hygienic design, complex material testing and multi-component system integration, serving food, pharmaceutical, fine chemical and multinational plastics compounding customers. Chinese and other Asian suppliers are expanding rapidly in standard single-screw and twin-screw models, supported by shorter delivery cycles, competitive pricing and flexible customization. Overall, competition is no longer limited to mechanical equipment manufacturing, but is increasingly based on weighing accuracy, control stability, material adaptability and line integration capability.

Future demand growth will be driven by continuous production and more sophisticated formulation requirements. Plastics compounding, engineering plastics, biodegradable materials, recycled plastics and masterbatch production require more stable multi-component dosing, accelerating the shift from volumetric feeding to gravimetric loss-in-weight feeding. Battery materials, functional powders and fine chemicals place greater emphasis on powder flowability changes, low-ratio additive dosing and batch-to-batch consistency. Food, nutrition and pharmaceutical continuous manufacturing applications require cleanability, low residue, validated control and data traceability. As customers move from standalone equipment purchases to automated feeding and dosing solutions, suppliers with material testing, process design and multi-feeder coordination capabilities will be better positioned to capture higher-value projects.

Technology development will focus on higher accuracy, modular design, easier cleaning and intelligent control. Single-screw models will remain suitable for free-flowing powders and granules, while twin-screw models will be more competitive for cohesive, bridging, low-bulk-density and fibrous materials. Micro-feeding designs, quick-disassembly structures, hygienic surface treatment, explosion-proof configurations, wear-resistant screws and enclosed refill systems will become important features for mid-to-high-end machines. On the control side, digital load cells, stable refill algorithms, vibration compensation, remote monitoring, recipe management and data communication with plant control systems will become increasingly important in equipment selection. The competitive barrier for leading suppliers will come not only from machining capability, but also from material testing databases and accumulated application know-how.

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The industry still faces several constraints. Material properties vary significantly in flowability, bulk density, moisture absorption and bridging tendency, making equipment selection and commissioning highly experience-dependent and difficult to standardize. High-end systems remain relatively expensive, and small or mid-sized customers may still choose volumetric feeders or lower-priced domestic equipment for non-critical dosing points. In addition, while Chinese and Asian suppliers have clear cost advantages in standard machines, they still need to improve long-term stability, low-rate accuracy, hygienic documentation and international service coverage. The market is expected to remain segmented: high-end customers will continue to value reliability and validation capability, mid-market customers will focus on cost performance and local service, and the low-end segment may face stronger price competition and product homogenization.

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

This report is a detailed and comprehensive analysis of the world market for Screw Loss-in-Weight Feeder 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 Screw Loss-in-Weight Feeder that contribute to its increasing demand across many markets.

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

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This report profiles key players in the global Screw Loss-in-Weight Feeder 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, Acrison, Thayer Scale, Gericke Group, MERRICK Industries, Funken Powtechs, 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 Screw Loss-in-Weight Feeder market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US$ Millions), volume (production, consumption) & (K 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 Screw Loss-in-Weight Feeder Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

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Global Screw Loss-in-Weight Feeder Market, Segmentation by Type:

Single-Screw Type

Twin-Screw Type

Other

Global Screw Loss-in-Weight Feeder Market, Segmentation by Feed Rate Range:

Micro Feed Rate (Below 1 kg/h)

Low Feed Rate (1–50 kg/h)

Medium Feed Rate (50–500 kg/h)

High Feed Rate (Above 500 kg/h)

Global Screw Loss-in-Weight Feeder Market, Segmentation by Material Type:

Powder

Granules and Pellets

Other

Global Screw Loss-in-Weight Feeder Market, Segmentation by Application:

Plastics and Polymer Processing

Food and Feed Processing

Pharmaceutical Manufacturing

Chemicals and Functional Materials

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Other

Companies Profiled:

Coperion

Qlar

Kubota

AZO

WAMGROUP

Acrison

Thayer Scale

Gericke Group

MERRICK Industries

Funken Powtechs

Wuxi Lingood Machinery Technology

Shanghai Sonner Intelligent Equipment

Guangdong High Dream Intellectualized Machinery

Key Questions Answered:
1. How big is the global Screw Loss-in-Weight Feeder market?
2. What is the demand of the global Screw Loss-in-Weight Feeder market?
3. What is the year over year growth of the global Screw Loss-in-Weight Feeder market?
4. What is the production and production value of the global Screw Loss-in-Weight Feeder market?

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5. Who are the key producers in the global Screw Loss-in-Weight Feeder market?
6. What are the growth factors driving the market demand?

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