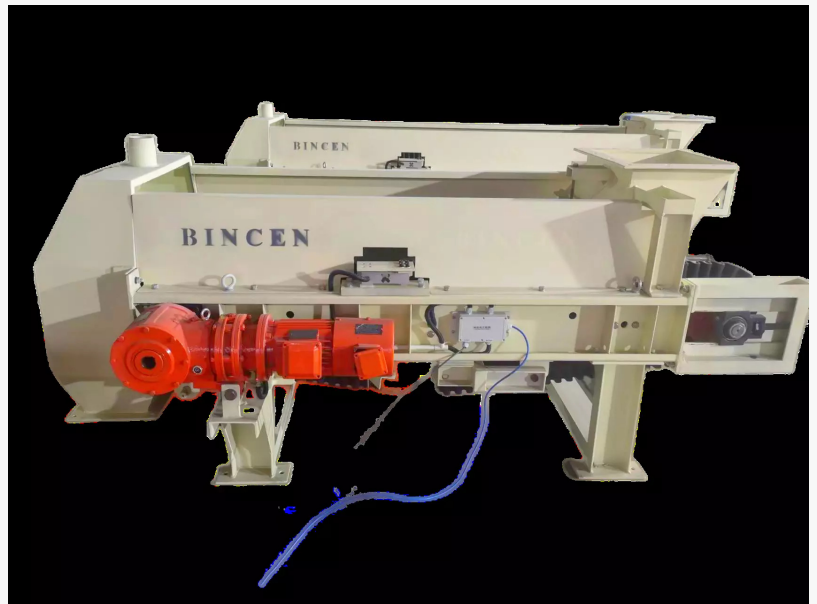


One-Stop Dedicated Quantitative Feeder for Bulk Material Conveying by BINCEN with China-Arab States Expo Experience

CHONGQING, CHONGQING, CHINA, July 11, 2026 /EINPresswire.com/ -- In high-intensity bulk material operations — power plants relying on continuous coal feed, cement lines processing dry aggregate, chemical processes where a flow deviation beyond a narrow tolerance triggers a batch failure — the equipment doing the measuring sets the ceiling for production consistency. Selecting a [Quantitative Belt Feeder Supplier](#) that covers both precision-critical dosing and high-throughput bulk conveying, with control interfaces that integrate cleanly into existing DCS architectures, resolves a procurement problem that single-parameter specifications consistently miss. [BINCEN](#), the industrial weighing brand of Chongqing Bincheng Electrical & Mechanical Technology Co., Ltd., addresses this gap with a three-model quantitative belt feeder line delivering metering accuracy from $\pm 0.25\%$ to $< \pm 1\%$ and conveying capacity from 0.05 to 1,000 t/h across five core industrial sectors.

International industrial buyers assessing Chinese equipment suppliers have progressively shifted from product-by-product comparison toward system-level qualification: specification coverage, metering precision class, control signal compatibility, and the completeness of post-sale



technical documentation. BINCEN actively maintains contact with this evaluation environment through Belt and Road trade cooperation channels, engaging face-to-face with industrial procurement contacts from the Middle East, North Africa, and Arab-market economies. This outreach builds on a traceable export record supported by overseas belt scale installations in Vietnam and weighbridge deployments across Africa and Central Asia.

One-Stop Dedicated Quantitative Feeder Range: Three Core Models for Bulk Material Conveying

BINCEN's one-stop quantitative feeder product line consists of three core models covering the full span from precision lightweight dosing to high-throughput heavy-load conveying, each with distinct capacity, accuracy, and control specifications suited to different industrial requirements.

The Conveyor Belt Weight Scale — the foundational quantitative belt feeder — achieves $\pm 0.25\%$ metering accuracy and delivers continuous uniform feeding through an integrated system comprising a frame, belt, supporting idlers, weighing device, anti-deviation alarm, control instrument, and electrical control cabinet. The control instrument provides real-time display of flow rate, cumulative volume, and set feeding amount. A 4-20mA flow current output and a reserved DCS interface support both field manual control and remote program control in parallel.

The Heavy-Duty Belt Scale Feeder extends conveying capacity to a range of 0.05–1,000 t/h, with a dynamic batching accuracy of $\leq \pm 1\%$. It provides analog signal output with digital I/O, meeting the signal compatibility requirements of large-scale power, metallurgical, and mining plant control systems.

The Speed Regulating and Batching Belt Scale operates at metering accuracies of $\pm 0.5\%$ to $\pm 1\%$, with a built-in PID closed-loop algorithm enabling switching between continuous dynamic batching and intermittent batching modes. The system generates shift-level, daily, monthly, and annual batching reports. All three models reserve DCS and centralized control system interfaces and are compatible with BINCEN's screw feeder and measuring belt scale, enabling integration into a complete closed-loop system from inlet metering through to output control.

Weighing Device and Closed-Loop Control: The Technical Core of BINCEN Quantitative Feeders

Accurate metering at the throughput and duty cycles that industrial operations require depends on the structural integrity of the weighing mechanism and the responsiveness of the control loop. The Conveyor Belt Weight Scale adopts patented technology from BINCEN., connecting the load cell to the frame through a cross-spring structure that maintains a precise force transmission path and resists impact interference from the material stream. The speed sensor —

an encoder — is installed and commissioned at the factory before delivery, pre-fitted with a protective cover to reduce on-site setup requirements.

The control instrument integrates a PID algorithm that continuously compares actual flow rate against target flow rate and adjusts frequency converter output in real time, maintaining closed-loop control over belt speed and feed rate across variable load conditions.

Belt deviation protection operates at the hardware level: a slight belt drift triggers the anti-deviation alarm; if deviation continues without correction, the system halts automatically. An enclosed running configuration is available, with an inspection hole for dust collection connection, a belt cover, and rear-side guard panels, meeting dust management requirements in chemical and materials handling applications.

Bulk Material Application Coverage: Power, Metallurgy, Mining, Building Materials and Chemical Engineering

BINCEN's quantitative belt feeder system carries direct application configuration and installation records across five high-intensity industrial sectors. In power generation, the equipment supports continuous quantitative conveying of coal powder or biomass fuel. In metallurgy, it handles ore and coke batching by weight. In mining, it integrates with crushing and screening systems for continuous uniform material supply. In building materials — including cement plants — it serves as continuous automatic quantitative feeding equipment for aggregates and mixed materials. In chemical engineering, the enclosed running configuration with dust collection connection and belt cover addresses the dust management requirements that open-conveyor designs cannot satisfy.

The Speed Regulating and Batching Belt Scale extends application coverage through four inlet hopper configurations: a standard hopper for free-flowing granular and powder materials; a vibrating hopper for high-viscosity or high-moisture materials; a guided hopper with pre-feeder for controlled introduction of dense feedstocks; and an extended guided hopper for fluidized-pour materials. Belt type is customizable across three formats — flat-edge, skirted, or high-temperature flame-retardant — to suit high-heat and combustible conveying environments.

The product line supports a minimum order quantity of one unit, with the full technical specification set available regardless of order volume.

BINCEN's Manufacturing Credentials: 20+ Years Experience, Patented Belt Weigher, OEM/ODM & All-round After-sales Guarantee

BINCEN has specialized in industrial electronic weighing instruments and weighing automation systems for more than 20 years, with its production base in Jiangjin, Chongqing.

OEM and ODM customization services accommodate different market branding and specification requirements. The modular design of the quantitative belt feeder range reduces on-site installation costs and timelines; detailed video tutorials and remote technical guidance are available for installation and commissioning support. The after-sales framework covers a 12-month full-unit warranty, online remote assistance, and free spare parts replacement during the warranty period.

BINCEN's manufacturing scope extends beyond quantitative belt feeders to industrial automation control systems, weighing sensors, and metering instruments — a product range that serves large and medium industrial enterprises as well as aerospace sector subcontractors, reflecting the manufacturing depth and process control standards that underpin its equipment quality.

From the one-stop three-model feeder range to the cross-regional installation record presented at the 2025 China-Arab States Expo, the case for BINCEN as a quantitative belt feeder supplier runs from product specification through compliance documentation to verified overseas deployment. Industrial procurement teams seeking selection guidance, technical specification sheets, or CE certification documents are invited to visit www.bincen.net.cn

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