



The loss-in-weight feeding system uses the 'loss-in-weight rate' as its control variable: the feeder and hopper are mounted as a whole on load cells, and the control system continuously monitors the weight decay rate of the hopper, dynamically adjusting feeder speed so that the actual feed rate tracks the setpoint precisely. Dosing accuracy is high and unaffected by fluctuations in material characteristics, making it the core equipment for continuous batching and metered feeding in plastics, chemicals, food, battery materials and other industries.

Feeder Options: single / twin screw feeders (powders and granules), vibration feeders (friable materials), rotary valve feeding, liquid loss-in-weight feeders (additive dosing); frame configurations include benchtop (small feed rates) and three-point module (high feed rates), usable as stand-alone units or as multi-component dosing stations arranged around a mixer / extruder.

Key Features

- ◆ Closed-loop loss-in-weight control with $\pm 0.2-0.5\%$ feed accuracy, continuous and stable
- ◆ Screw / vibration / rotary valve / liquid feeders to suit different materials
- ◆ Benchtop / three-point module frames, capacities from grams to tens of tonnes per hour
- ◆ Modular design for rapid integration with existing conveying, mixing and extrusion systems
- ◆ Automated control with recipe management, flow-curve logging and remote monitoring
- ◆ Optional explosion-proof configuration for combustible dust applications

Working Cycle



◆ Selection notes: please provide the material name and characteristics, feed-rate range (min / max), feed accuracy requirements, and downstream equipment interfaces. Multi-component systems can be supplied with centralized touch-screen control.