

## **Single screw gravimetric dosing feeder**

### **Introduction of Single screw gravimetric dosing feeder**

Batte feeding system with high accuracy can totally satisfy the fields of pharmaceutical industry, chemical industry, food, plastic and rubber and so on. Configurable options can meet factories' demand in hygiene, explosion-proof, water proof, antiseptic and other regulation demands.



### **Application of Single screw gravimetric metering feeder**

In the extrusion processing, it is common to add many material (such as color, flame retardant, glass fiber and so on) into extruder. In the process of continuous extrusion production, various material should be added to extruder continuously synchronized. And the adding speed of these materials should depend on corresponding formula, so metering feeder is necessary to control the adding speed. And one metering feeder control one material.

Loss-in-weight feeders is suitable for plastic granules, powder, calcium carbonate, talcum powder, resin membrane powder, flour, starch and so on. Different material use different feeders.

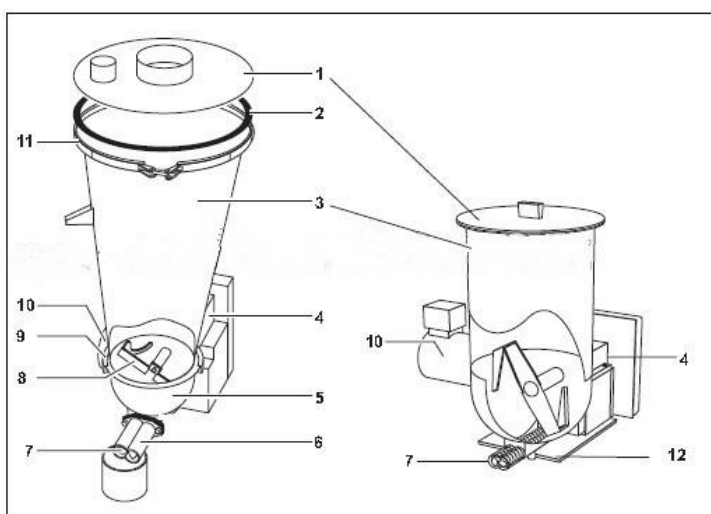
### **Characteristics of Gravimetric feeder**

- ◆ High feeding accuracy: Batte adds self-detection function when designing its feeders for more accuracy, it allows to detect attritions of parts and frequency variation timely, then revise them. So the feeder will not affect the feeding precision because a little change of the machine.
- ◆ The touch screen output and input system is humanized and easy to operate. As long as the operate has certain cultural foundation, he can master it within minutes. So short time training is ok.

- ◆ Wide measuring range: without replacement of parts, you can set wide range flow and realize the conversion of produce process smoothly.
- ◆ Excellent control system: one control system can control multi-feeders according to clients' requirements. This won't affect the accuracy.
- ◆ Batte feeders can satisfy the production requirements of masses of customers. With the independent research of kinds weighing chips, the feeding accuracy has been improved from  $\pm 0.5\%$  to  $\pm 0.2\%$ . The combination between single-chip and PLC control overcomes the problems such as scalability of single-chip control is not strong and precision of PLC operation is not stable. The weightlessness metering feeders' operation resolution can be ten millionth, two millionth for weightlessness feeders which can meet customers' high feeding accuracy.

**Structure of Gravimetric feeding system**

- (1) Hopper lid
- (2) Seal
- (3) Hopper
- (4) Gearbox for agitator and feed screw
- (5) Agitator hopper
- (6) Outlet tube
- (7) Feeding screws
- (8) Horizontal agitator
- (9) V-clamping ring
- (10) Motor
- (11) v-clamping ring
- (12) Base plate



**Parameters of Single screw feeder**

Type	Screw specification	Capacity (L/H)	Driving power (kw)	Hopper (optional)	Feeding accuracy
BAT-LF-SS28	28	10-100	1.1	40-80	$\pm 0.5\%$
BAT-LF-SS38	38	30-300	1.1	40-100	$\pm 0.5\%$
BAT-LF-TS46	46	40-400	1.5	40-120	$\pm 0.5\%$
BAT-LF-TS64	64	50-500	1.5	40-150	$\pm 0.5\%$

Notes: The feeding capacity and accuracy will be affected by different materials.

**Parameters of Single screw metering feeder**

Type	Screw specification	Capacity (L/H)	Driving power (kw)	Hopper (optional)	Feeding accuracy
BAT-MF-SS28	28	10-100	1.1	40-80	$\pm 0.2\%$
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BAT-MF-SS64	64	50-500	2.2	40-150	±0.2%

Notes: The feeding capacity and accuracy will be affected by different materials.

## The other Products













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- [Single screw gravimetric dosing feeder](#)
- [Single screw gravimetric feeder](#)
- [Twin screw loss in weight metering feeder](#)
- [Twin screw loss in weight feeder](#)
- [Volume feeding machine \(single screw,twin screw\)](#)
- [Micro loss in weight metering feeder](#)
- [Micro loss in weight feeder](#)
- [Liquid loss in weight feeder](#)
- [Multi-component loss in weight feeder](#)


- [Double plate hydraulic screen changer](#)
- [Manual control screen changer](#)
- [Double piston four screen cavities screen changer](#)
- [Automatic mesh belt continuous screen changer](#)
- [Single piston screen changer](#)
- [Single plate screen changer](#)
- [Double piston double screen cavities screen changer](#)
- [Four screen cavities backflash screen changer](#)











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- [ZB-B Gear melt pump](#)
- [ZB-C Extruder melt pump](#)
- [ZB-D Extruding pump for polymer](#)
- [ZB-E Pressurized melt pump](#)
- [ZB-F Melt pump for reaction kettle](#)
- [ZB-H High temperature and high pressure melt pump](#)
- [ZB-K Polymer melt pump](#)
- [ZB-R Gear pump for rubber extruder](#)
- [ZB-U Spinning gear metering pump](#)
- [ZB-X Chemical transporting and dosing pump](#)



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