

## Loss in weight screw feeder

### Loss in weight screw feeder introduction:

**Loss in weight screw feeder**, including single screw or twin screw type feeder, single screw or twin screw metering type feeder, single screw or twin screw **micro gravimetric feeder**, is suitable for powder granule, pill shaped material, poor liquidity, sheet, etc.



### 1) Single screw loss-in-weight feeder:

Feeder models of single screw loss-in-weight feeders feeding range of screws is 4-2000L/H, feeding material: pellet, free flowing powder, etc. Hopper can be cylindrical or conical hopper.

Type	Screw specification	Capacity (L/H)	Driving power (kw)	Hopper (optional)	Feeding accuracy
BAT-LF-SS10	10	3-30	0.1	10L	±1%
BAT-LF-SS18	18	6-60	0.4	20L	±0.5%
BAT-LF-SS28	28	10-100	0.55	60L	±0.5%
BAT-LF-SS38	38	30-300	1.1	80L	±0.5%
BAT-LF-SS46	46	40-400	1.5	120L	±0.5%
BAT-LF-SS64	64	50-500	1.5	160L	±0.5%



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

## 2) Twin screw loss-in-weight feeder:

Applicable Material: Pellet, Powder, Fibrous Material, etc. Hopper can be cylindrical or conical hopper.

Type	Screw specification	Capacity (L/H)	Driving power (kw)	Hopper (optional)	Feeding accuracy
BAT-LF-TS10	10	5-50	0.4	10L	±1%
BAT-LF-TS18	18	10-100	0.55	20L	±0.5%
BAT-LF-TS28	28	30-300	0.75	80L	±0.5%
BAT-LF-TS38	38	70-700	1.1	100L	±0.5%
BAT-LF-TS46	46	90-900	1.5	160L	±0.5%
BAT-LF-TS64	64	150-1500	2.2	200L	±0.5%
BAT-LF-TS78	78	300-3000	2.2	200L	±0.5%

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

## 3) Single screw loss in weight metering feeder:

Applicable Material: pellet, free flowing powder, etc.

Type	Screw specification	Capacity (L/H)	Driving power (kw)	Hopper (optional)	Feeding accuracy
BAT-MF-SS10	10	3-30	0.1	10L	±0.5%
BAT-MF-SS18	18	6-60	0.4	20L	±0.2%
BAT-MF-SS28	28	30-300	0.55	60L	±0.2%
BAT-MF-SS38	38	50-500	1.1	80L	±0.2%
BAT-MF-SS46	46	70-700	1.5	100L	±0.2%

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

## 4) Twin screw loss in weight metering feeder:

Applicable material: pellet, powder, fibrous materials, etc.

Type	Screw specification	Capacity (L/H)	Driving power (kw)	Hopper (L) (optional)	Feeding accuracy
BAT-MF-TS10	10	5-50	0.4	10L	±0.5%
BAT-MF-TS18	18	10-100	0.75	20L	±0.2%
BAT-MF-TS28	28	30-300	0.75	60L	±0.2%
BAT-MF-TS38	38	70-700	1.1	80L	±0.2%
BAT-MF-TS46	46	90-900	1.5	100L	±0.2%
BAT-MF-TS64	64	150-1500	2.2	150L	±0.2%
BAT-MF-TS78	78	300-3000	2.2	200L	±0.2%

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

## 5) Micro loss in weight feeder:

Micro loss in weight screw feeder includes single screw micro gravimetric feeder and twin screw micro gravimetric feeder. Applicable material: pellet, powder, fibrous materials, etc. Hopper can be cylindrical or conical hopper.



Type	Screw specification	Capacity (L/H)	Driving power (kw)	Hopper (optional)	Feeding accuracy
BAT-LL-SS10	10	3-30	0.1	10L	±1%
BAT-LL-SS18	18	6-60	0.4	20L	±0.5%
BAT-LL-TS10	10	5-50	0.4	10L	±1%
BAT-LL-TS18	18	10-100	0.55	20L	±0.5%

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

## 6) Micro loss in weight metering feeder:

Micro loss in weight metering feeder includes single screw micro metering gravimetric feeder and twin screw micro metering gravimetric feeder. Applicable material: pellet, powder, fibrous materials, etc.

Type	Screw specification	Capacity (L/H)	Driving power (kw)	Hopper (optional)	Feeding accuracy
BAT-MM-SS10	10	3-30	0.1	10L	±0.5%
BAT-MM-SS18	18	6-60	0.4	20L	±0.2%
BAT-MM-TS10	10	5-50	0.4	10L	±0.5%
BAT-MM-TS18	18	10-100	0.75	20L	±0.2%

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

## Loss in weight screw feeder application:

- ◆ In the extrusion processing, [gravimetric feeder](#) 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.

## Loss in weight screw feeder characteristics:

- ◆ Generous and beautiful appearance: comparing with traditional feeders, Batte dose more improvements on feeders' appearance.
- ◆ Small in size: easy to move, more suitable for changing and improving production process.
- ◆ Low noise: comparing with other feeders, noise of Batte feeders is up to perfect.
- ◆ Easy to clean and maintain: it's easy to maintain in operation, meanwhile, very short maintenance time. Especially the control system, adopting the leading software and hardware, are nearly free-maintenance and long-service life.
- ◆ 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.

## Batte Main Products



**Melt Pump Series:**

- ★ [ZB-B standard extrusion melt pump](#)
- ★ [ZB-C reinforced melt pump for extrusion](#)
- ★ [ZB-D gear pumps for pipeline](#)
- ★ [ZB-E pressurized melt pump](#)
- ★ [ZB-F melt pump for reactor](#)
- ★ [ZB-H high pressure extruder pump](#)
- ★ [ZB-K polymer discharge gear pump](#)
- ★ [ZB-R extrusion rubber pump](#)

- ★ [RS double shaft rubber gear pump](#)
- ★ [ZB-U spinning pump](#)
- ★ [ZB-W chemical metering melt pump](#)
- ★ [ZB-X gear metering chemical pump](#)
- ★ [New type melt pump](#)
- ★ [Melt pump spare parts](#)
- ★ [PID control system for extruder](#)
- ★ [PLC control system for extrusion line](#)
- ★ [PDF download](#)

**Screen Changer Series:**

- ★ [Manual screen changer](#)
- ★ [Slide plate screen changer](#)
- ★ [Continuous piston screen changer](#)
- ★ [Continuous backflush screen changer](#)
- ★ [Automatic belt screen changer](#)
- ★ [Pelletizer filter without wire mesh](#)
- ★ [Screen changer spare parts](#)
- ★ [PDF download](#)

**Loss in Weight Feeder Series:**

(For granule, sheet, powder, liquid, etc.)

- ★ [Loss in weight screw feeder](#)
- ★ [Volumetric screw feeder](#)
- ★ [Liquid polymer feed system](#)
- ★ [Multi-component gravimetric feeders](#)
- ★ [Gravimetric feeder control system](#)
- ★ [Feeding system](#)
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