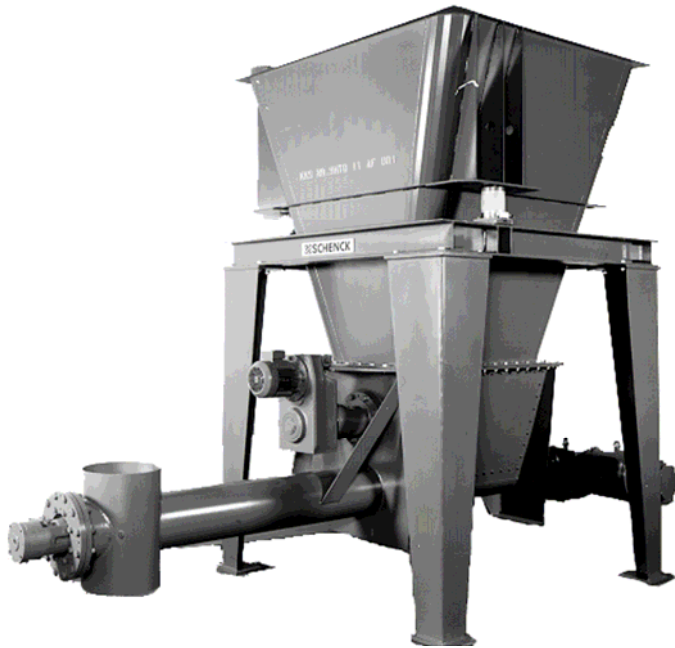


## SIMPLEX Loss-In-Weight Feeder, PSS Type



- Continuous, gravimetric feeding
- For feed rates from 500 to 50.000 kg/hr
- Enclosed, dust-tight systems
- Rugged design
- Also available in heat-resistant quality
- Largely service free

### Application

SIMPLEX Loss-In-Weight Feeders of the PSS type are primarily used for continuous gravimetric feeding (batching and blending) of fine-grain bulk solids, e.g. dusts and powders.

Typical scenarios:

- Feeding of limestone flour as additive in sinter plants
- Feeding of limestone flour or bentonite as binder in pelletizing plants
- Feeding of hot-return filter dusts in sinter plants
- Feeding of additives for anode paste production in aluminium industry

### Construction

The SIMPLEX Loss-In-Weight Feeder comprises:

- Weight hopper
- Discharge unit with discharge pipe
- Vertical discharge head
- Load cells
- Drive (geared motor)
- Agitator with geared motor (option)

Designed as enclosed and dust-tight system, the SIMPLEX Loss-In-Weight Feeder can also be supplied as gastight or pressure-proof variant, or in heat-resistant quality.

### Function

Loss-In-Weight Feeders operate on the principle of controlled material discharge.

The decrease in weight per unit time corresponds to the actual feed rate. The difference between actual and set feed rate, determined by comparison, forms the control output to the downstream feeder control circuit.

Inlets and outlets of the feeder are coupled to the material flow via flexible unions, rendering the unit totally enclosed.

The system can cope with feed rates from 500 to 50.000 kg/hr. Feed accuracy and constancy are better than  $\pm 0,5\%$ .

