

The Brabender SiloTray Feeder

The Brabender SiloTray Feeder is a new variant of the Brabender Bin Activator Type BAV proven in ten thousands of applications throughout the world. Beside reliable discharge of bulk materials from silos and bins, it now also allows proportioning directly from the silo.

Depending on the kind of application, it is available with an optional pneumatic shut-off valve integrated in the unit.

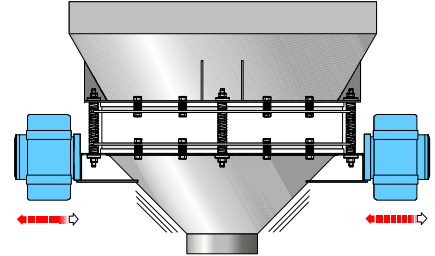
Thus the Brabender SiloTray Feeder is a multifunctional device that can be silo-mounted on site, where it offers discharging, proportioning and shut-off functions in one.

The Brabender SiloTray Feeder consists of a vibratory discharging and proportioning bottom for suspension from silos or bins. Special hanger arms allow horizontal vibration while at the same time centering the unit

due to their high restoring forces. Variable speed unbalance motors vibrate the unit and control the discharge rate in conjunction with a frequency converter in case of volumetric proportioning and, in addition, a microcomputer controller from the Congrav® controller line in gravimetric proportioning applications.

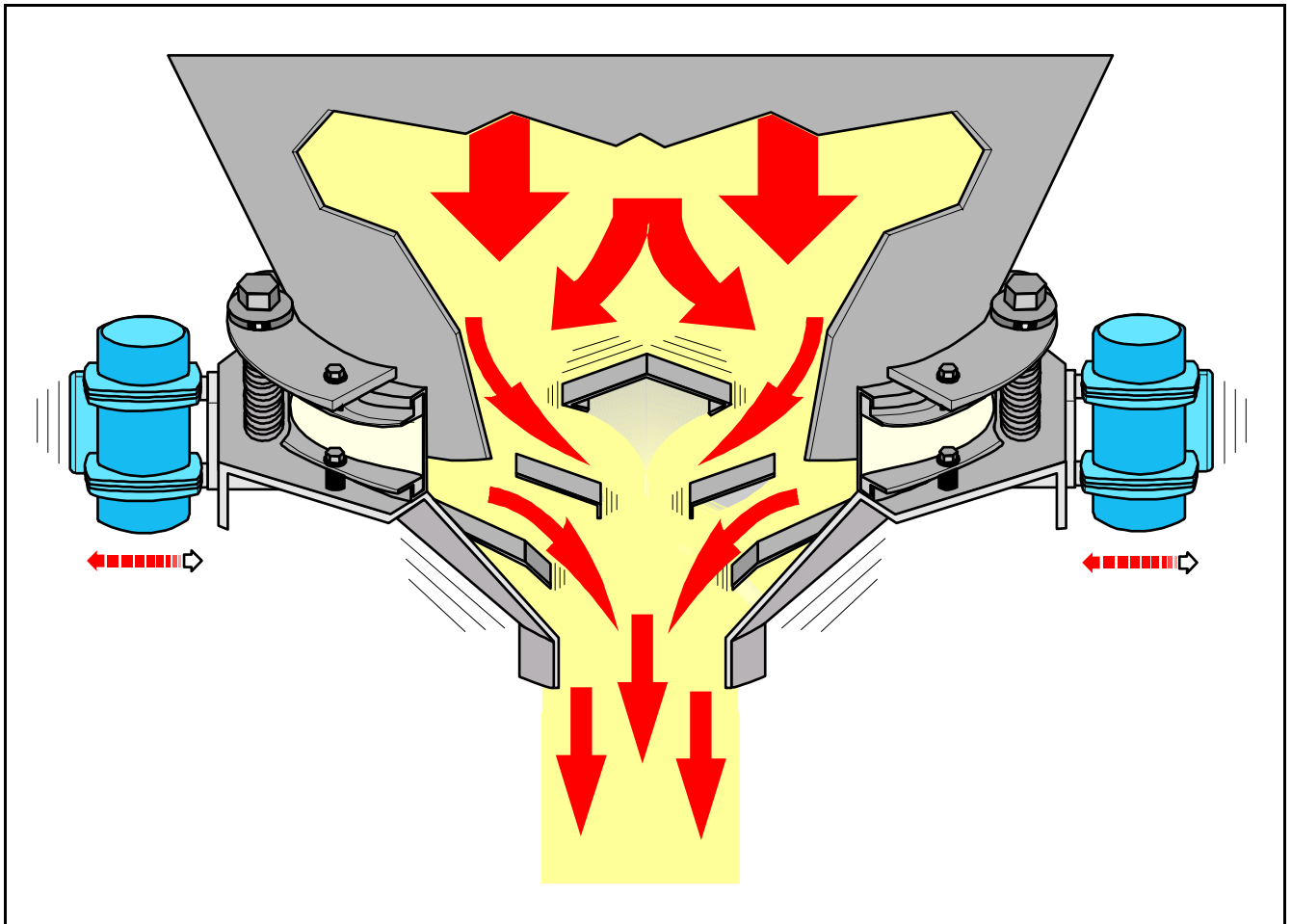
The discharging and proportioning bottom, the motor supports and the stabilizing flange ring form a stress-free constructional unit ensuring even distribution of the dynamic forces.

The working method does not require agitators and ensures non-compacting "first in - first out" discharge without bridging or particle deterioration. Due to its brilliant reproducibility the unit is perfectly suitable for instance for feeding of pneumatic or mechanical conveying systems and even as a final control element in the con-



trol loops of continuous gravimetric feeding configurations, e. g. with a weighed bin. Refilling of loss-in-weight feeders at a defined rate is another application feasibility.

The Brabender SiloTray Feeder is available with diameters from 600 to 1200 mm for rates from 100 dm³/hr to 100 m³/hr, offering suitable units for small-size bins to large silos.



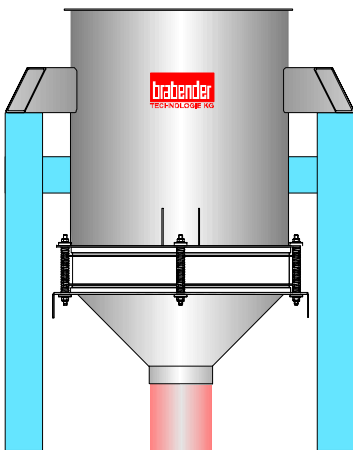
Suitable Bulk Materials

The Brabender SiloTray Feeder is suitable for all flowable bulk materials without hygroscopic, sticky or floodable flow characteristics, for instance for

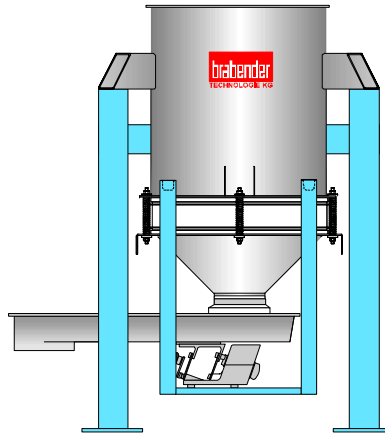
- Granules and pellets
- Powders
- Flocks
- Fibrous materials and chips, e. g. glass fibres and film chips, etc.

Fields of Application

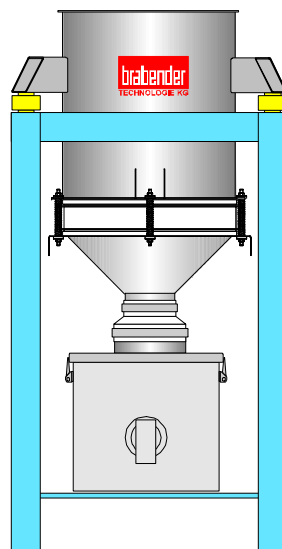
- Continuous volumetric proportioning or controlled discharge at a defined adjustable discharge rate
- Continuous gravimetric loss-in-weight proportioning in conjunction with a scale system
- Loss-in-weight batching in conjunction with a scale system
- Gain-in-weight batching in conjunction with a weighed collecting hopper



Application example 1: controlled discharge at a defined rate



Application example 2: volumetric proportioning



Application example 3: gravimetric proportioning

System Integration

The Brabender SiloTray Feeder is suitable for integration in a variety of most different systems where bulk

materials have to be proportioned. Due to its compact dimensions and low planning-in height it saves the space that is otherwise required by spacious proportioning equipment.

Control

The Brabender SiloTray Feeder is controlled by the Brabender frequency converters type FC in case of volumetric proportioning and additionally by one of the microcomputer controllers from the Congrav® controller line in case of gravimetric applications.



Brabender frequency converter



Microcomputer controller from the Congrav® controller line

brabender

TECHNOLOGIE

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