Hopper Discharge Feeder (magnetic channel)

Hopper discharge feeders are special discharge devices for a wide range of bulk materials from hoppers and silos.

A JOEST magnetic drive, designed as a sub-resonant dual-mass system, is attached to a channel-shaped machine body which it excites via a linear oscillating movement, which in turn conveys the bulk material by means of micro throw movements and discharges it from the hopper. In this design, the discharge rate can be widely varied, since the amplitude of the magnetic drive is adjustable via the built-in thyristor. Furthermore, the conveyor stops immediately when switched off without running on. Magnetic feeders are therefore especially useful for dosing (weighed feeding).

Various parameters have to be considered in the system's design and configuration, such as hopper pressure, hopper geometry, particle size, flowability, humidity, tendency to caking, etc. Hopper discharge feeders are therefore designed individually for each application.

APPLICATIONS

- Green Sand Molding Process
- No-Bake Sand Molding Process
- Lost Foam Process
- Used Core Sand Transport
- Reclamation Systems
- Melting Process
- Metall Dross Recycling
- Melting Process / Additive systems
- Furnace Charger
- Wagon & Truck Unloading

ADVANTAGES

- ☑ High dosing precision is achievable
- ☑ Not susceptible to blockages
- ☑ Existing bridges in the bunker are eventually dis solved by vibration
- ☑ Discharge mass flow is largely independent of the hopper filling level
- ☑ Very good adjustability and control of the mass flow via thyristor control

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TECHNICAL DATA

- Dimensions and design features are tailored to the customer's specific requirements

OPTIONS

- Wear plates
- Covers
- Hopper discharge chute
- Layer thickness slider
- Under-trough heating
- Needle Gate
- Supporting Structure
- Transfer Hood