Hopper Discharge Feeder (unbalance channel)

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

Two self-synchronizing counter-rotating JOEST unbalance drives are attached to a channel-shaped machine body which they excite via a linear oscillating movement, which in turn conveys the bulk material by means of micro throwing movements and discharges it from the hopper.
With this type of design, very high discharge rates can be achieved. 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 discharge rates are 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
- ☑ Good adjustability of the mass flow via the layer thickness slider

A member of the JOEST group

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JOEST®

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