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Vibrating feeders & belt conveyors

Tasks

Forplan offers vibrating feeders and belt conveyors with which bulk materials, after being tipped out from customer-specific containers by means of lifting and tilting devices, are buffered and further conveyed. In the course of this, containers with bulk materials are emptied by means of lifting and tilting devices. Attention is paid to ensure drop height reduction and gentle conveying.

Through a variety of different options and equipment features, Forplan is able to offer optimised, customer-specific and part-related solutions.

Principle of operation

In vibrating feeders, the conveying process takes place in an oil and abrasion resistant, lined bunker feeder via the principle of oscillating conveyors. In the process, the feeder is energised by an electromotive imbalance generator. For dosed parts emptying, the feeder can be hydraulically tilted with a rocking motion. Thus, there is no need for a failure-prone retaining flap. For small parts, a chain-driven floor scraping system can be optionally offered.

In damage-prone threaded parts, the conveying process occurs via belt conveyor systems with oil and abrasion resistant rubber belts and corrugated edges, which are driven by an electric motor. On the discharge side, also drop height reductions, specifically adjusted to parts, can be offered.

Advantages

- Material saving transport
- Complete emptying
- Targeted dosing
- Freely programmable and parameterised control sequences

Examples of use

- Loading of washing and pretreatment systems
- Loading of coating and re-sealing systems
- Loading of production systems
- Loading of heat treatment systems

Range of components

- Fasteners
- Screws
- Nuts
- Rivets
- Stamped and bent parts
- Bulk material in general