

# Resonance Conveyor One-Mass-System

JÖST single-mass resonance conveyors are used for transporting bulk material and general cargo over long conveying distances. An oscillating system consisting of a trough unit and working springs is excited at very low frequencies by an eccentric slider-crank drive.

The machine's base frame with the working springs is anchored to the foundation, thus the system requires only very little drive power. In a single-mass system, the dynamic restoring forces of the springs are supported by the foundation — this must be considered when designing the foundation.

With this system, large vibration amplitudes are possible, enabling high flow rates. The maximum technically feasible length is about 50 meters.

In heavy machines of this type, the conveyor trough is bolted to a support frame and is interchangeable; in lighter versions with very low overall height, the leaf spring mounting tabs are directly welded to the sides of the trough. The slider-crank drive contains standard housing bearings, a three-phase standard motor (foot type) and a V-belt drive.





#### APPLICATIONS

- Green Sand Molding Process
- No-Bake Sand Molding Process
- Lost Foam Process
- Used Core Sand Transport/Reclamation Systems

#### ADVANTAGES

- ☒ Low energy consumption
- ☒ Low height
- ☒ Excellent price/performance ratio
- ☒ Long working lengths possible

#### OPTIONS

- Wear lining
- Under-trough heating to prevent caking
- Screen decks for residue screening
- Trough covers (oscillating or static)

#### TECHNICAL DATA

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