

Resonance Conveyor Mass Compensated

JOEST dual-mass resonance conveyors are used for transporting bulk material and general cargo over long conveying distances. An oscillatory system consisting of a trough and working springs with active vibration absorbers at regular intervals is energized at very low frequencies by an eccentric slider-crank drive unit.

The machine's base frame is anchored to the foundation, and the system requires only very little drive power. Since the dynamic restoring forces of the working springs are largely compensated for by the active, mass-compensated system of vibration absorbers, only very low residual dynamic forces are transmitted into the foundation.

With this system, large oscillation amplitudes are possible, enabling high flow rates. The maximum technically feasible length is about 70 meters. In these machines, the conveyor trough is bolted to a support frame and is interchangeable. The slider-crank drive contains standard housing bearings, a three-phase standard motor (foot type) and a V-belt drive. This machine is available in a curved design.

This type of machine is often used as a sorting or breaking conveyor in the foundry industry. With vertical acceleration values below 1 g, the material does not lift off the trough during the conveying process (low-noise / gentle). Nevertheless, during conveying even heavy castings can be rotated or moved slightly on the trough, allowing ergonomic, energy-saving working over a prolonged period.





APPLICATIONS

- Nassgussverfahren
- Kaltharzverfahren
- Lost Foam Prozess
- Kernsandtransportanlagen /Rinnentransportsysteme

OPTIONS

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

TECHNICAL DATA

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

ADVANTAGES

- ✓ Low energy consumption
- ✓ Low transmission of dynamic forces into the foundation
- ✓ Quiet and gentle transport
- ✓ Heavy-duty steel construction without concrete components
- ✓ Very easy separation of the machine for installation purposes
- ✓ Modular design based on reliable standard modules
- ✓ Curved design available