

FSM SORTING CONVEYOR



APPLICATION AND FUNCTION:

Sorting conveyors type FSM are robustly manufactured special vibrating conveyors. They are normally used in foundries with green sand mould line installations. The FSM sorting conveyors are installed either directly after a separating conveyor or ideally directly after a casting cooler.

FSM sorting conveyors are mass compensated resonance conveyors. Below the trough so called active mass compensated blocks are installed in regular distances. These blocks compensate the dynamic forces generated inside the machine.

To optimise the material flow the separating conveyors can be equipped with curves, Y-pieces, residual sand screening sections and pneumatic mass flow blockage flaps.

The vibration of the conveyor has a very low frequency. The vibration parameters are chosen in a way that the castings do not jump when conveyed but softly and slowly slide. Therefore it is possible to work directly on the conveyor in an ergonomic way with separating wedges or similar tools. The conveyor is driven by an excenter crank drive unit with belt transmission.

PROPERTIES:

- Minor transmission of dynamic forces in the basement.
- Ergonomic work possible
- Quiet and gentle conveying, no micro throw movement
- Lengths deliverable up to 60m in one piece
- Easy to separate for transport and erection, low height of construction
- No concrete-filled parts inside the machine – massive steel construction
- Planning reliability through modular kind of construction
- Curves up to an angle of 180° possible
- Low current consumption
- Reliable start-up even under heavy load