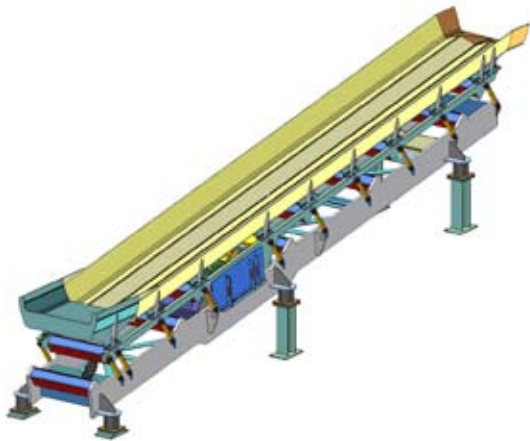


TWO MASS RESONANCE CONVEYOR FOR SAND/CASTING, DIRECTLY ARRANGED AFTER A FLASKLESS VERTICAL MOULDLINE



APPLICATION AND FUNCTION:

When a rotary drum is used for the separation of sand and castings, it is necessary to convey sand and castings after the vertical mould line on an inclined vibration conveyor from the end of the mould line to the inlet of the rotary drum.

The application shown above is a standardized machine for this purpose. Normally the length is about 10000 mm, the gain in height is 1200 mm, and the inclination is 8°.

PROPERTIES:

The mass of the trough, the mass of the counter frame and the working coil springs operate close to their natural resonance frequency. It is a tuned, sub resonant system.

Only very low dynamic forces are transmitted into the static supporting structure.

The vibration is excited via crank drive unit. For highest reliability no concrete counter frames are used; the counter frame is made of massive steel.

A special feature is the W-shaped trough cross section which allows conveying sand and castings upwards on steeper inclinations as it is possible with a flat trough cross section.