

Vibrating multidirectional conveyor consists of a working mass, an intermediate mass, and a reactive mass, as well as vibrators for horizontal and vertical vibrations, flat transverse springs for horizontal vibrations connecting the working and intermediate masses, flat longitudinal springs for vertical vibrations connecting intermediate and reactive masses, and vibration isolators. The intermediate mass consists of two conveyor elements arranged symmetrically towards the longitudinal cross-section of the transporting elements conveyor. The transverse springs for horizontal vibrations consist of two sets of flat springs, each set held together by five ties; the ends of the sets are connected to various transport elements of intermediate mass. The centers of the spring sets are connected to the working mass via tie rods; the longitudinal springs for vertical oscillations consist of four sets of flat springs. Some ends of sets are connected with ties to the sets of transverse springs in areas with no horizontal oscillation of the conveyor; the other ends of sets are connected to the reactive mass. Vibration isolators are installed beneath the longitudinal spring assemblies in areas with no vertical or horizontal vibrations from the conveyor.