

ABSTRACT

A cross-belt sorting machine and cross-belt sorting system based on a three-dimensional track. The cross-belt sorting machine includes a pair of track units (10) arranged symmetrically and parallel to each other in a vertical direction, each track unit being closed in a vertical plane, and the track units being guided by a plurality of deflection wheels (20) at least one of which is a drive wheel (22) for driving the track units to circulate. A sorting carriage (30) horizontally bridges the pair of track units, and track sections of the pair of track units extending in the vertical direction are sequentially guided by the plurality of deflection wheels to form at least two layers of reciprocating track sections (13). Thus, a loading station (40) and a plurality of unloading chutes (50) can be provided on one or both sides of the reciprocating track sections of the pair of track units.