

Abstract

Title : Assembled-type Automatic Container Loading/ Unloading System

An assembled-type automatic container loading and unloading system comprises a central structure body having a plurality of vertical stakes and a plurality of parallel frames, including upper parallel frames and lower parallel frames, extending across and connected to the vertical stakes. A transportation mechanism is provided near each of both sides of the lower parallel frames and extends along the direction perpendicular to the parallel frames. A loading/unloading mechanism, located between the upper parallel frames and the lower parallel frames, extends between the adjacent parallel frames at each of both ends. At least a land structure body has a plurality of vertical frames, a plurality of transverse frames, and a plurality of longitudinal frames, provided at an upper side of the land structure body and including an upper longitudinal frame layer and a lower longitudinal frame layer. All kinds of frames are perpendicularly connected to each other. The land structure body has a first side, at which a transverse transportation mechanism parallel to the transverse frames are provided, and a second side, opposite to the first side, at which a loading and unloading area for land transportation is provided. A whole-area bridge crane extends between the adjacent upper longitudinal frames of the upper layer. A local gantry crane extends between the adjacent lower longitudinal frames of the lower layer, as shown as Figure 1. All of the frames are made of steel.



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