

Container crane for hoisting two 40 feet containers

Abstract

A container crane for hoisting two 40 feet containers at a time is disclosed, comprising: a first hoisting device, the first hoisting device comprises a first head block, a first spreader, a first winding barrel, a first hoisting mechanism motor, a first brake, a first hoisting reduction gear box, a first head block pulley and a first hoisting pulley, wherein the first hoisting pulley is arranged on a trolley and the first head block pulley is arranged on the first head block; a second hoisting device, the second hoisting device comprises a second head block, a second spreader, a second winding barrel, a second hoisting mechanism motor, a second brake, a second hoisting reduction gear box, a second head block pulley and a second hoisting pulley, wherein the second hoisting pulley is arranged on the trolley and the second head block pulley is arranged on the second head block; a connection cylinder, for approaching and separating the first head block and the first spreader mounted thereon and the second head block and the first spreader mounted thereon in a direction vertical to the length of the containers; and a wire rope winding system, for connecting the first hoisting device and the second hoisting device through a first hoisting wire rope and a second hoisting wire rope, so as to make the first hoisting device and the second hoisting device to work simultaneously. The invention uses the two separate hoisting devices, the functions of separation, differential in height, displacement, included angle and releasing of the two hoisting devices are achieved by the cylinders, two 40 feet containers can be hoisted, also the cylinders can be separated so that the separate operations of the two hoisting devices can be obtained. By using the container hoister of the invention, the efficiency of the load and unload is increased, high repayment is obtained with less increasing the equipment cost, the larger beneficial result is occurred, also it has the wider applicable prospect.

Figure. 7