

Abstract

A three-dimensional sorting robot-based data processing method and a three-dimensional sorting robot and system. According to the method, a three-dimensional sorting robot (1) is provided with a processor (11) and a sorting assembly. The data processing method comprises: an obtaining step: obtaining the identity information of a target sorting rack (2) in real time, the identity information comprising structure data of the sorting rack (2) and/or position information of basket units in the rack (2); a binding step: binding the identity information of the target sorting rack (2) with the information of a three-dimensional sorting robot (1), the binding relationship being associated with a target order executed by the three-dimensional sorting robot (1); and a sorting step: under a sorting task of the target order, sorting, by the sorting assembly according to the identity information of the rack (2) by means of the processor (11), goods to be sorted. The three-dimensional sorting robot (1) can perform real-time interaction based on order execution, such that deployment of a control system is avoided, and the data transmission and sorting efficiency is improved.

<Fig. 1b>