

ABSTRACT

TRANSVERSING LOADING DEVICE, OVERHEAD HOIST VEHICLE INCLUDING THE SAME, AND AUTOMATIC MATERIAL HANDLING SYSTEM

A transversing loading device, an overhead hoist vehicle, and an automatic material handling system applied in the technical field of automatic control are provided according to the present application. The transversing loading device includes a picking-up and fixing mechanism fixedly connected to the travelling base plate (6) of the overhead hoist vehicle, and a horizontal adjusting mechanism installed on a lower surface of the picking-up and fixing mechanism. The horizontal adjusting mechanism includes a synchronous adjusting mechanism and a sliding mechanism, the synchronous adjusting mechanism is arranged on a side surface of the sliding mechanism and is configured to slidably adjust the sliding mechanism to a predetermined horizontal position relative to the travelling base plate (6) along a first direction. The first direction is a horizontal direction perpendicular to the side surface, and the predetermined horizontal position is a position above a target object to be handled. With the horizontal adjusting mechanism, the components in the overhead hoist vehicle can be quickly and accurately adjusted to a position directly above the target object to be handled, which can improve the production efficiency of the product and better meet the needs of the factory.

Figure 1