

ABSTRACT

The present invention provides a handling apparatus and handling methods thereof. The handling apparatus includes a movable transport mechanism; a support platform having a support surface parallel to a horizontal plane, the support surface being configured to support objects to be handled, a plurality of loading stations being circumferentially defined on the support surface to receive the objects to be handled, the support platform defining a through hole at a center thereof; a gripping mechanism, configured to pick and place the objects to be handled, the gripping mechanism having one end traversing through the through hole and being connected to the transport mechanism; and a driving mechanism, configured to drive the support platform to rotate in the horizontal plane above the transport mechanism. The handling apparatus and methods of the present invention enable the gripping mechanism to follow a same travel path to pick up objects from the target place for picking or placing, thus enhancing efficiency of the handling apparatus.

Provided in the present invention are a handling apparatus and a handling method therefor. The handling apparatus comprises a movable transport mechanism; a support platform having one supporting surface parallel to the horizon and used for supporting objects to be handled, the supporting surface having defined thereon multiple loading stations in the circumferential direction, the loading stations being used for placing the objects to be handled, and the support platform being provided at the center thereof with a through hole; a gripping mechanism used for grabbing and placing the objects to be handled, the gripping mechanism running through the through hole to be connected to the transport mechanism; and a driving mechanism used for driving the support platform to rotate horizontally on the transport mechanism. The handling apparatus and the handling method therefor provided in the present invention allow the gripping mechanism to have a same trajectory each time when grabbing the object to be handled on the loading stations of a target

grabbing/placement area, thus increasing the handling efficiency of the handling apparatus.