PICK-AND-PLACE MECHANISM AND TRANSFER ROBOT

ABSTRACT

A pick-and-place mechanism includes: a base; an extension and retraction structure arranged on the base, and having a free end configured to selectively extend from or retract into the base; a pick-up assembly arranged at the free end, configured to move relative to the base under the drive of the free end, and configured to act on a front end surface of a target object when picking up or returning the target object, so as to transfer the target object; a driving structure connected to the extension and retraction structure, and configured to drive the free end to extend from or retract into the base, so as to drive the pick-up assembly to reciprocate between a target goods location and the base; and a first detection structure configured to detect a moving distance of the pick-up assembly toward the target goods location, to determine a position of the pick-up assembly.

[FIG. 2]