

Abstract

An autonomous moving transfer robot, comprising: a main body that comprises a base (11) and a vertical plate (12); a traveling mechanism (2) that comprises a driving wheel and a driven wheel that are mounted on the base (11); a working mechanism that comprises two manipulators, 5 wherein each manipulator comprises a mechanical arm (3), a proximal end of which is connected to the vertical plate (12), and a clamp (4) that is pivotally connected to a distal end of the mechanical arm (3); the mechanical arms (3) are configured to enable the clamps (4) to reach a desired position, and the two manipulators drive the two clamps (4) near to and away from each other so as to grip and release a target object (400); a carrying mechanism that comprises a 10 plurality of plate-shaped carrying members (5) used for carrying the target object (400), the plurality of carrying members (5) being fixed on the same side, i.e. the front side or the rear side, of the vertical plate (12), and arranged at intervals along the vertical direction; and a control system that is used for controlling the walking/stopping and steering of the traveling mechanism and controlling the movement of the manipulators. The present autonomous moving transfer 15 robot is capable of automatically transferring the target object without manually loading and unloading, thus effectively improving production tempo and working efficiency.