

ABSTRACT

Disclosed in the present invention is a rolling robot, comprising: a housing, which is formed in the shape of a revolving body; two supporting hubs, which are fixed to two sides of the housing; a main supporting structural member, which extends horizontally in a left-right direction in the housing and is connected to the two supporting hubs by means of bearings at two ends of the main supporting structural member; a gravity pendulum, which is connected to the main supporting structural member and is swingable in the left-right direction; a rotating mass, which is rotatably connected to the main supporting structural member about a rotating axis extending horizontally in a front-back direction when the rolling robot is stationary; a main driving electric motor, which is configured to drive the main supporting structural member, the gravity pendulum and the rotating mass to rotate in the front-back direction; a gravity pendulum driving electric motor, which is configured to drive the gravity pendulum to swing in the left-right direction; and a rotating mass driving electric motor, which is configured to drive the rotating mass to rotate in the left-right direction. In the present invention, the control difficulty of the rolling robot is reduced, high-speed movement can be realized, and jitter of the rolling angle hardly occurs.