

ROBOT ARM AND ARTICULATED ROBOT ARM

ABSTRACT

With the purpose of realizing a robot arm that achieves both lightness of weight and ease of maintenance, and that has a long reach, a robot arm (100) is provided with a pneumatic cylinder (102) that pulls in a wire (104), and a movable pulley (105) that amplifies a force generated by the pneumatic cylinder (102) and that transmits the force by the wire (104), wherein the robot arm (100) is connected to a joint (103) that is driven by the force amplified by the movable pulley (105). An articulated robot arm can be realized by serially connecting a plurality of the robot arms (100) and arranging joints between the plurality of robot arms.

Figure 1