ABSTRACT

The telerobot consists of four-legged robots that carry its own controller. The robot is designed to obey a few commands like walk, pick, place and stop. A remotely located operator can steer the robot using the radio telemetry controller. These devices are connected to the robot controller wirelessly for about ten meters long. The walking robot is able to exhibit good omni-directionality movements rather than fast speed. In statically stable machine and from the research point of view this feature gives more abilities to develop new algorithms than speed. The dimensions of robot are sixteen inches long, seven inches wide, and six inches high. The robot is based on a mechanical structure that consists of a square body with four legs distributed in a circular configuration. The body is designed to contain the robot controller and eight servomotors. Legged robots have the potential ability to transverse rough terrains that are impassable by standard wheeled vehicles.