

ABSTRACT

The present invention improves power-saving performance of devices including an electric actuator.

The vibration test device according to one embodiment of the present invention includes a vibrating table on which an object to be vibrated is to be attached, an electric actuator that vibrates the vibrating table in a predetermined direction, and a controller that controls the electric actuator. The electric actuator includes an electric motor of which rotation can be switched between forward and reverse rotations, and a drive device that is supplied with electric power from a power source and controlled by the controller to supply driving electric power for vibrating the vibrating table at desired amplitude and frequency to the electric motor. The drive device includes a power regenerative converter that regenerates electric power that is not consumed by acceleration of the electric motor, among electric power regenerated from the electric motor when the vibrating table is vibrated at the desired amplitude and frequency, to the power source.