

32920 Sensitive Motor

Purpose:

This motor is intended to be operated from a single small solar cell.

Required Accessories:

One (1) Photovoltaic Cell

One (1) Rubber Band

Assorted cardboard disks

Discussion:

This motor was selected for this service based on its ability to be started in bright sunlight by a single solar cell having just a few square inches of area. It will, in fact, start with less than direct bright sunlight, and can be made to vary its speed by covering a portion of the face of the solar cell. The mounted pulley will drive simple devices with a useful mechanical advantage using a rubber band for a belt. Cardboard disk patterns of interesting design can be cut out and mounted on the pulley edge using the supplied 5/32" clear tubing as a retainer. A blank disk is provided to illustrate this application. The 5/32" clear tubing can be used as a display item by itself to demonstrate the shaft rotation, or it can be used to couple the motor shaft directly to some other device.

Time Allocation:

To prepare this product for an experimental trial should take less than two minutes. Actual experiments will vary with needs of students and the method of instruction, but are easily concluded within one class period.

Feedback:

If you have a question, a comment, or a suggestion that would improve this product, you may call our toll free number.