

Vocabulary



electromagnet a magnet made by passing electric current through a coil of wire wrapped around an iron core

Electromagnets are used in the construction of electric motors, electric generators, and devices such as doorbells and earphones.

generator a device that uses magnets to convert the energy of motion to electrical energy

A generator uses a magnet or an electromagnet to work. The energy of motion is used to turn a coil of wire inside a magnet. The moving magnet produces an electric current in the wire.

motor a device that uses magnets to convert electrical energy to the energy of motion

A motor uses an electromagnet and a permanent magnet to work. Electric current moving through the motor creates an electromagnet that interacts with a permanent magnet. This interaction causes the electromagnet to spin, producing motion.