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Electromagnets have become as a vital component in most of the electronic devices such as loudspeakers, motors, generators, magnetic separation equipment, hard disks, scientific equipments and much more. Its ability to turn magnetism on and off instantly is one of the important features responsible for its growing usage in modern electronic devices.

Even most of the home applications such as door bells, circuit breakers and music amplifiers in guitar use electromagnets to perform a wide range of functions. For example, when the button in the door is pushed electricity starts to flow over the electromagnet making it magnetic and clanging metal bell and metal clamp together causing a ringing sound. Once the button is released electricity flow shuts down thus, stopping the ringing sound.

With its amazing features, electromagnets have become as an integral part of modern technologies. Usually, electromagnets are made from coils of wire that carry electricity. When electricity flows through metal coil, electromagnets become magnetic and retain its magnetism until the current stops.

Some important applications of electromagnets are listed below:

**Motors and generators:**

In the electrical motor when the current flows from socket to appliance magnetic field is generated by electromagnets which in turn operates the motor. Controlling the flow of electricity controls the performance of the motor. Similarly, generator works on opposite principle. When steam or water rotates a shaft which in turn rotates a set of magnets electricity is produced. Electrical motors and generators are available in a wide range of variety but they all have similar principle and uses electromagnets.

**Industrial usage:**

Electromagnets play an important role in industries. They are used for a wide range of tasks such as lifting heavy objects, sorting out metals and more. Since, it is inexpensive to manufacture than permanent magnets, they are used frequently than permanent magnets.

**Speakers:**

Almost all the speakers make use of electromagnets to vibrate the cone effectively.

**Communication:**

Communication industry also relies on electromagnets to record sounds using magnetic tapes. Electromagnets are used widely for various communication equipments such as telegraph, radio, speakers and even microphones.

**Electronic devices:**

Electronic devices use electromagnets for a wide range of purpose. In car, electromagnets are used to generate current. They are also used in computers, door bells and other electronic devices to perform specific tasks.

These are some important applications of electromagnets. When performing magnet repairs, it is important to perform visual inspection and magnetic tests to determine the condition of the magnet.

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a [Electromagnets](#) are used widely in modern applications for a wide range of purpose. The author is an expert in the electromagnets arena and has written articles regarding electromagnets and magnet repairs in the past. For more details visit a <http://www.rotary.co.uk/about-us>

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