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The Purpose of Using Electromagnetic Coils by [Angie Turner](#)

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Electromagnetic coils are widely used for research and scientific purposes. It is a kind of device that has two parts to it- one is the conductor while the other is the core. Usually copper wire is used as the conductor and it is wrapped around the core made from some kind of metal. The wire is turned round and round around the metal to form a coil. The main reason of electromagnetic coils is to use it as a conductor. It is used to store energy inside its magnetic field. Electromagnets is general are used in various kinds of works- motors and generators, transformers, electric bells, magnetic locks, particle accelerators- all of them require electromagnets to function at some level. The coils are basically a kind of manual device. Its greatest advantage is that by increasing or reducing the number of coils, the strength of the magnetic field can be adjusted, giving the user the exact precision he needs to get achieve the desired results.

It is a major reason that it is used in transformers as they amount of energy passing through, even if it might fluctuate, does not hinder its smooth functioning. Over the years, a lot of research and planning has gone into producing competent electromagnetic coils and they have often been responsible for preventing major accidents as well in times of electrical crisis.

Used properly, electromagnetic coils can be of great use. However, it has often been seen in the past that bad usage has led to people messing up their work. But overall, it is one of the moat important ways in which a lot of electronic work gets done around us.

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