

# Permanent magnets.

## Pitman - Permanent magnets



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Magnets. Permanent magnets.

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### Permanent Magnet

Many of us have heard of, or even have used them, but when asked what is a permanent magnet, how many types of the permanent magnets are there, and what are the applications of permanent magnets, few of us can answer. They also have a vital role in engineering, power generation, processing and manufacturing. Inside atoms and crystals you have both electrons and the nucleus of the atom.

### Permanent Magnets

In addition, Cu-Ni-Fe, Fe-Co-Mo, Fe-Co-V, MnBi, and AlMnC alloy were once used as permanent magnetic materials in history. Some permanent magnets are brittle and may break at high temperatures.

### Permanent Magnet

Like all permanent magnets, each domain has its own north pole and south pole. The higher the maximum energy product value, the greater the magnetic field the magnet will generate in a particular application. This feature makes electric machines more efficient, allows their speed of rotation to be controlled and improves the torque at low RPM, given that there is no gearbox.

### Types of Permanent Magnets

Less eddy current loss means less heat and less waste. To make a permanent magnet, ferromagnetic material is heated at incredibly high temperatures, while exposed to a strong, external magnetic field. Magnetic field strength remanence, resistance to demagnetisation coercivity and pulling force are all often summarised as strength and all are desired attributes of a permanent magnet.

### What Is a Permanent Magnet?

Alnico is also inherently corrosion resistant. Additionally, rotor currents generally result in leaks that decrease the performance of the machine.

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