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Automatic Disk Clutch Components by [Alena](#)

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Clutch, which allows the transfer of mechanical energy (and therefore usually move) component (the user) can lead to other engines (members).

Application of simple nails, which are devices that have two axes of rotation. The bodies are usually associated with the change of power or engine power (driving member), and also provides other trees (state disk) Results for the job. In the simulations, for example, a crankshaft and the drilling of other titles. Clutch shaft connecting the two, so you can come together and rotate at the same speed (works), locked together, but work at different speeds (slider), or to open and operate at different speeds ().

The remainder of this paper focuses on discussions on the types of clutches, and the application, and the similarities and differences.

Friction clutches

Friction clutches are by far the most well-known type of clutches.

Materials

he different materials used for the coating of the friction discs, such as asbestos in the past. Claws modern general-purpose resin of organic compounds with copper wire or before the ceramic material. The friction coefficient used in the disk surface 0.35U 0.25u organic and ceramic. And is often used in heavy applications of ceramic materials such as trucks carrying heavy loads or running, even if the ceramic material is more difficult to increase spending on the flywheel and pressure plate.

Push/Pull

And they are generally classified as a friction clutch disc to push or pull, depending on the pressure points in support of the Council. Pull the grip of a kind, and the work of the steering wheel pedal, push the diaphragm and the direction of motion of the car. The opposite occurs with the type of payment, including white collar clutch to drive the car. In this case, you can not make this flight to be tested and the pressure (as before).

Pads

The tab for the brake pads, clutch. Usually made of rubber, but are known to contain asbestos. Paw pads usually last about 100,000 miles (160,000 kilometers), depending on the driving force of the vehicle.

Dampers

In addition to the centers of disk used to reduce transmission of vibration, pillows can be used to reduce engine noise to a minimum, and changing the natural frequency of the disk. The springs are compressed just below the radial vibration of the engine idling. It is fully compressed and no longer used once occupied by the shock strut.

Manufacturing

Development of connectivity modern meeting and / or general method for making easier. For example, often uses belts to transfer torque, and the pressure plate on the side to lift the car on the retreat. As for the production of the diaphragm spring and the heat treatment is necessary. Laser welding is becoming more popular as a form of panel of the unit circle in the ring laser is usually between 2 and 3 kW and the speed of 1m/minute.

Wet clutch is immersed in liquid coolants also keeps surfaces clean and gives you smoother performance and service life. Wet clutches, however, tend to lose energy to the liquid. As can be slippery wet clutch (as is the case with motorcycle engine clutch oil in the tank) as possible, several clutch stack to compensate for the low coefficient of friction and eliminate slippage when in power, fully committed.

Hele-Shaw was the wet clutch, which is based solely on the effects of the tail, instead of friction.

dry clutch, as the name implies, is not bathed in fluid liquid and must be dry, literally.

Centrifugal clutch is used in some vehicles (like bicycles), and other applications where the motor speed to determine the status of the clutch, for example, the chain saw. This system uses a centrifugal clutch apply to the application of the clutch automatically when the engine speed exceeds the threshold and replacing the clutch automatically when the engine speed low enough to fall.

It is characterized by a conical friction surface. Middle of the cone of the cone is a clear movement of the approach surfaces of the unit (or return) is much slower than in the clutch disc. Therefore, a certain amount of force created more pressure on the contact surfaces.

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