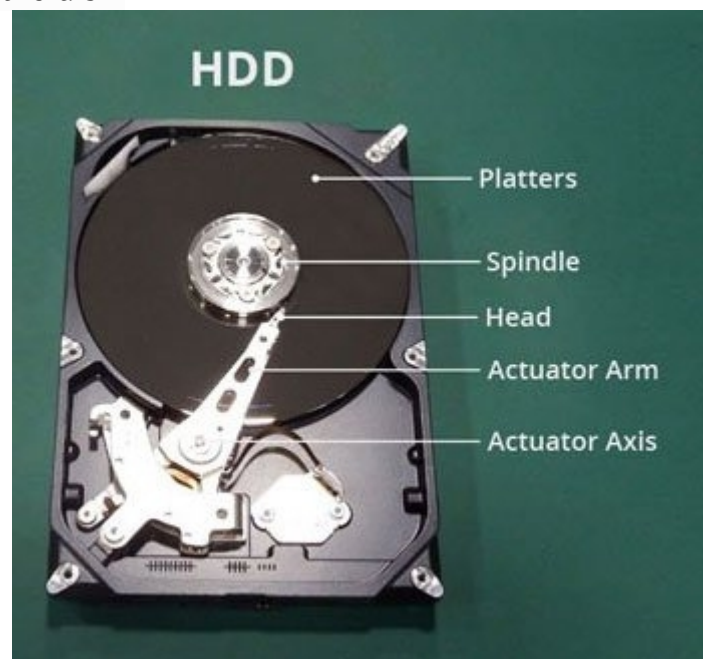


## Hard Disk Drive

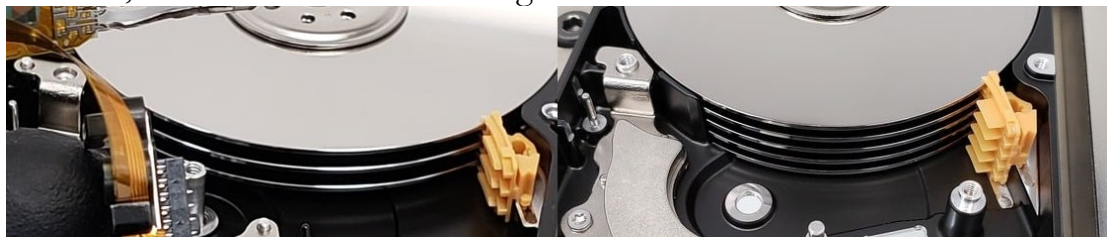
Hard disk drive consists of moving pieces and parts that includes circular metal disc-shaped platters which store and retrieve the computer's data. HDD is the most common and inexpensive form of hard drive.

### Parts of the HDD

The HDD has moving parts and relies on magnets to store and retrieve data. It composed of four key components inside its casing, such as, the platter for storing data, the spindle for spinning the platters, the read/write arm for reading and writing data and the actuator for controlling the actions of the read/write arm. The head connected to the actuator arm is the one in charge in reading/writing data, which is directly contact with the disk.



Also, the number of platter is an indication of how much storage capacity it can take, which correlate to the weight of the hard drive.



**Numbers of disk platter: 3TB vs 5TB**

## **How Data is Stored in an HDD**

The traditional spinning hard drive is the basic storage on a computer. The spinning platters is the disk storage while, the head and actuator which controls the computer's data. This is technology is relatively ancient and common storage for most of the existing devices.

## **Performance (Speed and Capacity)**

Consumers may choose an HDD because of its massive storage capacity and it is relatively inexpensive. However, HDD is not known for its processing speed, it has a read/write speed of 160 MB/s.

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