图片包含 室内, 桌子, 白色, 黑色

描述已自动生成

**Cyclones**

**Main body**

**Bin**

**Battery pack**

**Combination tool**

**Figure 1.** Dyson V6 Vacuum Cleaner.

In Fig.1, we have shown the main compositions of Dyson V6, which is a cordless handheld vacuum. As is shown in Fig.1, there are mainly five parts that construct this vacuum. The main body has a switch and a powerful motor that spins at up to 125,000 rpm to generate a great suction. The Battery pack attached to the bottom of the main body contains 6 lithium-ion batteries to provide power for the whole device. The cyclones in the middle are arranged radially which work as a filter to separate dust from the air via centrifugal force. The dust and debris separated by the cyclones are collected in the bin right below the cyclones. The inlet pipe is connected to the combination tool that can adapt to different tasks. The tool is a combination of a brush and a wide nozzle. The brush part is made for sweeping the dust and the nozzle will suck them directly to the inlet pipe.

Source: <https://i.ytimg.com/vi/jltgyLD-3cE/maxresdefault.jpg>