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Die casting is a process where molten metal is put into a mould cavity using considerable pressure. The die casting method is a low cost and high product generating method. It is mainly used for producing small or medium sized parts.

Die casting is used in a variety of industries including the industrial, consumer and commercial industries, which require using different kinds of metals for different products. Die castings are usually made of metal alloys like zinc, copper, aluminium, tin and lead. Companies that specialize in die casted parts use various methods to manufacture the components.

The major ones are gravity die casting, high pressure aluminium casting and low pressure aluminium casting. Alloy wheels are made using the low pressure aluminium casting process. Aluminium die casting is one of the more popular methods.

Aluminium is a popular metal alloy used. The reason behind this is that aluminium is a light weight metal, but also has an ability to remain stable when moulding it into complex shapes. It retains its strength at high temperatures. It has a very good resistance to corrosion. Aluminium is known its good mechanical properties and its high electrical conductivity.

The automotive industry is one of the biggest industries to use parts that have been manufactured using the aluminium die casting process. Many automotive companies have replaced steel with aluminium for the car's frame and automotive components. The reason for this is that aluminium is lighter than steel, making the car leaner and faster. Lighter cars mean less consumption of fuel. It is easier to mould it into complex parts. Also, the labour cost for aluminium is less.

With a high demand for aluminium parts, many aluminium companies have come up that cater to the industries, manufacturing aluminium die casted parts. The die casting process also allows the manufacturers to produce the product according to the client's specifications. The products can be light weight, ranging from a few 100 gms to a few kgs, depending on the requirement.

The work of aluminium die casting manufacturers is majorly influenced by the research and development that goes into creating better systems to improve the production process. R&D usually comprises a highly qualified team that handles a large amount of imported and indigenous equipment. Automotive components manufacturers use the aluminium die casting process so that the component will have a long life. They can be designed to add to the visual appeal of the vehicle. That is why many automotive designers ask for parts that can be produced using the aluminium die casting method.

One of the newer processes that have been introduced in die casting is the pressure injection process. A number of methods are being used to automate the die casting process. This helps to continuously provide quality control. Automated systems are used to ladle metal into chambers, lubricate dies. Microprocessors adjust pressure and velocity to create the product according to the specification provided. Thus, it is simple to produce a component of according to one's needs.

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