Article Side
Die Casting Process Types by Krishna

Article published on January 9th 2012 | Business

Die casting is one of the oldest and most trusted methods of metal casting. It is a process in which molten metals like aluminium are forced into mold cavities using high pressure. Read on to know all about this versatile metal casting method and its history.

The molds used for the die casting methods are reusable. Industries make use of this method to manufacture different kinds of complex shapes. It is crucial that the shapes produced are defined, have either or smooth textures and can be subjected to various finishes, as per requirement. The method of die casting is used in various industries ranging from automobile to toys industry. With the help of this method one can make something as simple as a tap or as complex as a cylinder block.

The process of die casting has also changed since. Earlier only the low-pressure injection method was used, now a days the high-pressure casting method is widely used. Due to the modern method casting with excellent surface finishes and high integrity can be produced. This was about the history of die casting in a nutshell. Looking at the present usage of aluminium die castings in the various industries. we are definitely going to need many more aluminium die casting companies in the future.

There are many types of aluminium castings that are used in the various industries now a days. Depending on the need of the aluminium castings, the method of casting is decided. There are however many companies that specialize in only one particular way of the mold casting method like Endurance, who is one of the leading aluminium die casting firm One interesting thing that about aluminium casting is that during the invention of this method, aluminium was not the first choice for the making of castings. Fragile metals like tin and lead were used at that time. However after the discovery of aluminium, no one went again to use lead and tin again!

Die Casting: Aluminium die casting is one of the widely used methods of aluminium casting, especially in large industries wherein many castings are required. Aluminium die casting method is generally used in automobile, aerospace and power tool industries. In the process of die casting, aluminium or other molten metal is forced into the molds under high pressure.

Permanent Casting: These types of molds are made from steel or iron. Permanent aluminium mold castings are quite cheap and hence are used in industries where large number of casting are required. Gravity or vacuum is used to cast molten metal into the mold.

Sand Casting: This is one of the oldest methods that have been used for aluminium casting. As the name suggests, sand casting method is used for making sand moulds only. The created sand moulds can re-used, this method is in fact used for making permanent patterns only. Aluminium sand casting has been used since the Egyptian times, the purpose however has changed.

Plaster Casting: This type of mold is made by the baking method.

we are definitely going to need many more aluminium die casting companies in the future.

Article Source:

http://www.articleside.com/business-articles/die-casting-process-types.htm - Article Side

Krishna - About Author:
Krishna kshirsagar is associated with Endurance Group a leading a aluminium die casting manufacturer Company. He is expert in the area of a aluminium die casting companies.

Article Keywords:
Automotive Components Manufacturer

You can find more free articles on Article Side. Sign up today and share your knowledge to the community! It is completely FREE!