



Article published on March 16th 2012 | [Technology](#)

Injection molding is a process used to manufacture molded thermosetting and thermo plastic materials. It is a manufacturing process in which the raw materials are fed in a heated barrel where they are mixed and forced to enter or injected into a mould cavity. In the mould cavity, the material cools down and hardens after taking the shape of the mould cavity. The products and molds are usually designed by industrial engineers and the moulds are usually made of metals such as steel or Aluminum.

Equipment Used

A plastic injection molding machine has two functions- clamping and injecting. The machine has to clamp tightly the mold where the parts are shaped or molded. Pressure varies according to the required application and also the strength of the machine. Machines can be hydraulic, electric or hybrid.

The processes involved in plastic injection molding are many. The first stage is clamping shut the molding. Next the heated plastic material is injected into the mould. The molded plastic is then allowed to cool and harden after which the clamp is opened and the cooled plastic is ejected.

Applications

From small components to huge applications, plastic molding is suitable for a wide variety of applications such as manufacturing wire spools, bottle caps, automotive parts, packaging materials, pocket combs, shower heads, telephone cases, buckets, safety helmets etc. Plastic molding can also be used to mold parts of musical instruments, chairs, small tables, mechanical parts, storage containers and many other plastic products that we see around us.

Plastic injection molding is the most common method to manufacture plastic parts. It is the best way to achieve high production volumes since they have the strength to repeatedly tolerate the same process over and over again.

Manufacturers can also benefit from minimal scrap losses and low labor costs. Once the injection molding does its work, there's little else work to be done on the part.

Suppliers

There are a number of industrial manufacturers, plastic factories, and manufacturing engineering firms that provide plastic injection molding solutions. The internet is a great place to source your supplier who will give you a good deal.

Most of the suppliers are prepared to provide completely customized plastic molding processes depending on your requirements. They can even help out with the manufacturing and design of the molds.

If you feel that your product is feasible, then surely there's an injection molding service provider who can make your dream a reality.

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Article Keywords:

Injection molding, plastic injection molding, plastic molding, prototyping

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