

Transformations in Plastic Manufacturing Industries: Go Green Strategies



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Process used for the manufacturing of plastic parts includes Injection molding as the most convenient process. It is a common process used for mass production. The process is highly economical, reliable and offering good quality components with higher dimensional stability and accuracy. Injection moulding products vary widely in their complexity, size and application.

Application of Injection moulding is most common for toys, some musical instruments, wire spools, and many more as such which are used in day to day life. It is evolving as a new technology. People can receive quality products that satisfy wants and needs of today's society by using innovative ideas created by researchers in this field.

Industries are leaning towards recycling which can reduce the hazardous effects of waste on the health of the general population by using eco-friendly materials and production methods. China is accumulating most of the plastic waste from developed countries but now currently a trend has been set up for manufacturers to generate a recycling plan for plastic scrap which will reduce waste and its environmental impact.

We can take surplus of plastic and melt it for recycling. A waste material can be melted, blended, and injected back into the various recycling plants which can facilitate the movement of plastic scraps. Use of high-grade and high-performance materials is also one of the ways to reduce scrap. The evolving needs of society necessitate for upgrades in manufacturing methods. A large amount of plastics that can be blended to improve properties which will give long lasting, corrosion-resistant, and temperature resistant material.

Apart from these all, the use of Hot runner mould can be one of the solutions to reduce the scrap and ultimately to reduce the plastic waste. A research is going on the effective usage of hot runner system with low cost which will lead to an ecofriendly environment along with plastic components.