Mold Design and Tooling for Injection Molding

May 06, 2013 - Injection molding is a high-precision manufacturing process that injects molten plastic into a carefully designed mold, where the plastic cools and hardens into the specified part or product. The piece is then ejected from the mold, either as the final product or as a near-final product that is sent on for secondary finishing.

Houston Injection Molding Company - Plastic Injection

Texas Injection Molding offers in-house tooling design and engineering support for new injection molds and has both in-house and outside plastic mold building resources to provide cost-effective solutions to new tooling.

Learn how to make a plastic mold. Maximizing productivity using injection molding. Learn about the types of ornamental wood moldings. Each injection mold design must have a gate, or an opening that allows the molten plastic to be injected into the cavity of the mold. Learning correct mold design for the plastic injection molding process is critical to project success. This guide covers everything you need. During the injection molding process, molten plastic flows through channels called “runners” into the mold cavity. The direction of flow is . Draft helps a part release from a mold with less drag on the . Our basic guidelines for plastic injection molding include important design considerations to help improve part moldability, enhance cosmetic appearance, and . Before you can produce a series of plastic products with injection molding, you need to design and create a proper mold. In injection molding, polymer granules are first melted and then injected under pressure into a mold, where the liquid plastic cools and solidifies. Mold design for injection molding, including injection plastic mold, die casting molds, inspection fixture, die casting trim die and blow molding molds. - draft all surfaces parallel to the direction of mold separation.