

# Mold Building

We have been in the business of Mold Building since 1996. We specialize in development and production of a variety precision plastic injection molds and plastic injection. In 2003, we set up the Rapid Prototyping and Rapid Tooling Department in order to shorten product development time and introduce products into the market with speed and precision.

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## RAPID PROTOTYPE

Rapid Prototyping is a technology that creates a 3D part by building layers upon layers of material. Its speed and low cost allow design teams to confirm their new design early and frequently in the process. We can create an accurate prototype which can be used for presentation, functional test, assembly, etc , for you within a few days. We offer variety of comprehensive services. Our expertise is in functional and durable working rapid prototypes and short-run prototype production from secondary tooling and Rapid tooling.

## PLASTIC INJECTION MOLD

The design and craftsman of a mold are essential factors in affecting the quality and part's cost. We have built thousands of molds for our customers and pride ourselves on the ability to optimize part and mold designs at the beginning of a project. We can work on any formats of CAD drawing. Our engineers provide professional suggestions on part design which helps improving quality, reducing cost and producing high precision molds within short time frame.

## RAPID TOOLING

Rapid Tooling Systems are standard equipment for today's engineers in product development . However, often these technologies ( e. g., Stereolithgraphy, Laser Sintering, LOM, FDM or Vacuum Casting ) are only economical when small numbers of parts are produced and the prototypes only have series-like material properties. With conventionally produced prototype tools, costs and lead times make it economically unfeasible to get the required number of parts, which can be anywhere from hundreds to several thousands.

In the Rapid tooling process form halves and, if required, inserts made from master models, are produced in specially-developed material. This material does not shrink as it hardens, and, as compared with other RP technologies, there are no post-processing steps, like sintering, polishing or finishing of cavities, You can produce extremely accurate tools, with superb detail. Surface quality and detail are true to the master model.

Even textures can be reproduced.

Our engineering and mold making technologies include:

- Pro/Engineer (3D Modeling)
- SolidWorks (3D Modeling)
- AutoCad (2D Modeling)
- Moldflow Mold Advisor (Plastic flow/deform simulation)
- MasterCam (CNC Programming)
- CNC Machining Centers
- EDM (Electro-Discharge Machining)
- Wire-Cutting Machines

#### Engineering Capacity

- 40 engineers (6 designers + 10 programming + 16 asst. engineers and draftsmen)
- Complete engineering service
- Product development consultancy (Early Supplier Involvement)
- CAE (Mold flow analysis)
- Complete 3D tool design
- Solid modeling
- Information control

