

DESIGN AND ENGINEERING

Design for Manufacturability (DFM)

Custom Mold & Design team of engineers are readily available to work with your team to provide best-in-class component design support.

We begin the design process by understanding your product requirements and how this information translates into appropriate part design changes. Subtle alterations can make the difference between molding success and a project that takes months to 'develop.'

Speed to market is always key... but be wary of those manufacturers that do not ask for or suggest enhancements in the design.

Higher quality input leads to a higher quality outcome – teamwork is a crucial component of effective DFM.



In nearly every project, companies focus on mold delivery lead times as the pacing item. The truth of the matter is better DFM in the beginning of a project leads to a shorter overall project time line.

The key to successful project execution and cost containment / minimization is the early involvement of the Custom Mold & Design design team (e.g.; prognostic design consideration and development leads to the creation of robust processes).

Our engineering software systems include: Cam-tool, Hyper-Mill, Mastercam, Creo, Solidworks, Esprit, etc.

Mold Simulation

Custom Mold & Design is well versed in the advanced usage of Moldflow software and techniques.

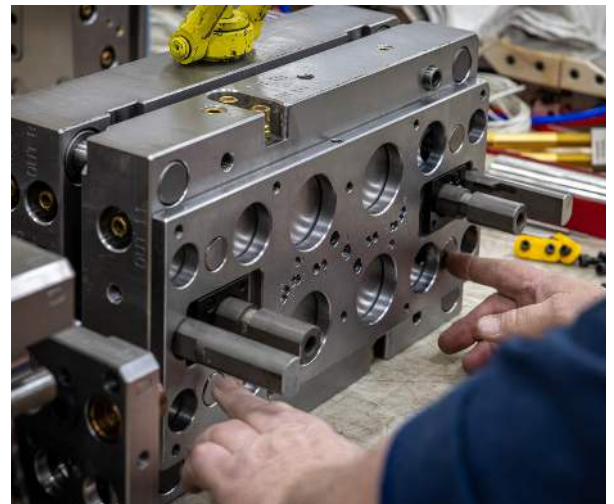
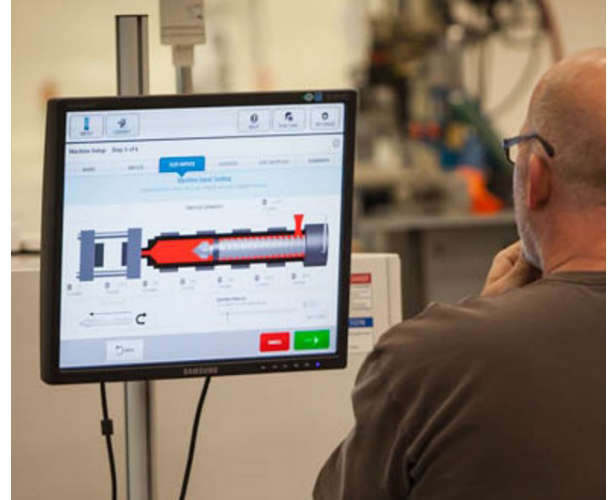
Predicting flow patterns and identifying potential mold filling concerns early on will save time and revision costs later in the project. Any tool is only as good as the experience that is driving the decisions.

Types of Tooling

The type of tooling best used for your application is a function of a number of inputs. Things like: part volumes, part complexity, material selection, your product's lifecycle, etc. are all things that must be considered when choosing your type of mold.

Examples of tooling options include, but are not limited to:

- Lower volumes – consider MUD / unit sets
- Similar part designs and materials – family tools may be a consideration
- Similar part designs and different materials – could warrant an interchangeable mold
- High volume projects – multi-cavity and possibly a hot runner system



Whatever your requirements – We will help you select the best tooling options for your applications.