



Mold flow software eliminates the guesswork traditionally required to get the best part and mold designs for plastic injection molding applications. We evaluate the manufacturing feasibility of your design to determine optimal part thickness and can identify and minimize cosmetic issues such as sink marks and weld-lines. Our tooling engineers estimate the impact of design or material changes on part cost and provide detailed advice on improving the part design and minimizing cycle time. This software also allows us to construct and analyze virtually all types of sprue, runner and gate systems and properly size runners to balance flow in multi-cavity and family molds. We also determine the optimal gate location(s) and accurately determine optimal processing conditions.

To complete the mold design process, our engineers use Cimatron mold design software to split part geometry, find and implement engineering changes, create electrodes and inserts, and detail tooling components. At mold design completion, 3-axis tool paths are created for our “on-site” high-speed machining and EDM centers and the mold is finalized, assembled, and readied for first shot trials.