CASE STUDY: *Inherited Imbalances*

$114,000 Lifetime Savings
100% Cavitation | **0%** Short Shots

Case Study Overview

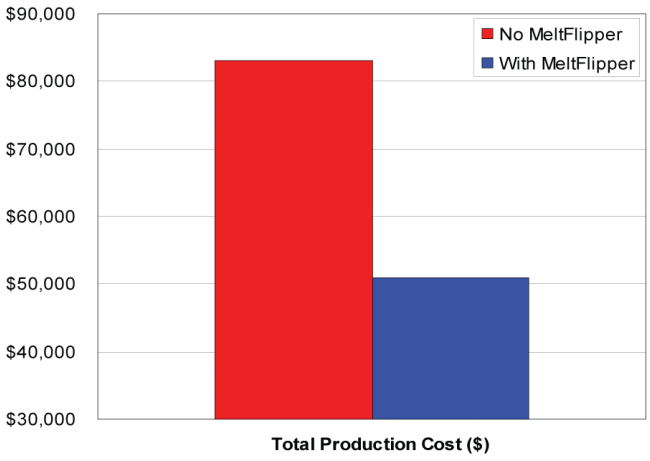
Viking Plastics inherited a 4-cavity mold to produce Delphi HVAC units that would eventually be used in Saturn vehicles. Viking was known for providing tight-tolerance injection molding and assemblies, and they quickly recognized an imbalance issue within their new mold. Upon seeing the pattern in filling, Senior Project Manager Marty Radock said "not only did we understand that the problem was with the mold, but we also knew where to go for the solution." Having utilized MeltFlipper® successfully in the past, Viking quickly teamed up with Beaumont's engineers to implement the technology in this mold. This resulted in reduced machine, material, maintenance, and inspection costs - Viking achieved an annual production savings of $32,470 and a lifetime savings of $114,000.

Project Description

- 4-Cavity Mold
- Delphi Component for Automotive Manufacturer
- Mineral-Filled Nylon

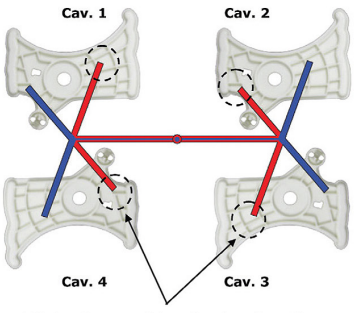
Problems

- Maximum cavitation achieved: 75%
- Excessive costs
  - Machine, material, and inspection
- Intracavity imbalance
- Short shots with 48% scrap rate

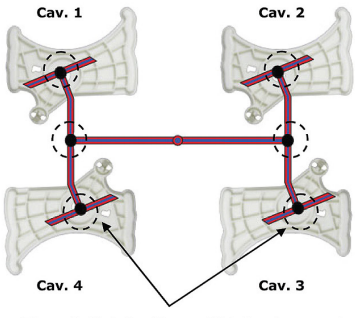


Benefits and Cost Savings from MeltFlipper®

- 100% Cavity Utilization
- Nearly $114,000 in savings over the lifetime of the tool



High-sheared laminates feeding different locations between cavities



Equal distribution of high-sheared material with MeltFlipper® technology

"Our customers find that Viking can produce more products with faster mold comissioning times, faster cycle times, and less scrap." -Marty Radock, Sr. Project Manager