

# INDUSTRY-LEADING COLOR CHANGE. UP TO 47% FASTER.

Color changeover efficiency is an important cost factor. Each event interrupts the injection molding production process and large amounts of expensive polymer can be lost with each transitional shot. Mold-Masters original iFLOW manifold technology helps to maintain your productivity, minimize scrap and lower your cost per part. Unlock your operations full potential with Mold-Masters technology.

## KEY FEATURES

### 2-PC BRAZED MANIFOLD DESIGN

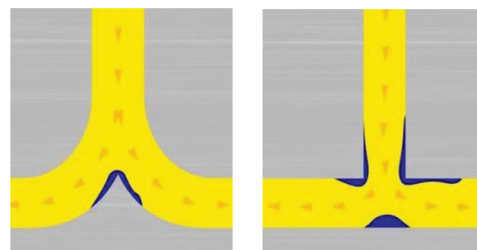
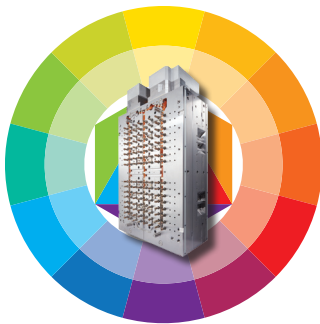
- Incorporates patented melt-flow geometries, flow path options and runner shapes.
- Runners are carefully CNC milled with curved paths and polished.
- Sharp corners and dead spots are eliminated.
- Promotes resin flow.
- Extensive flexibility for design optimization.

### BRAZED HEATER TECHNOLOGY

- Aids in the color change process.
- Optimizes heat transfer.
- Enhances thermal mold balance.
- Improves energy efficiency by up to 20%.
- Superior reliability with available 10-year warranty.

### COLOR CHANGE OPTIMIZATION SERVICES

- Optimized for each application.
- Dedicated design and simulation services.
- Comprehensive knowledge and experience.
- Extensive application library.
- Global support.



**iFLOW**

**Gun-drilled**

iFLOW runner channels eliminate dead spots which helps to clear resins and complete the change color process significantly faster.

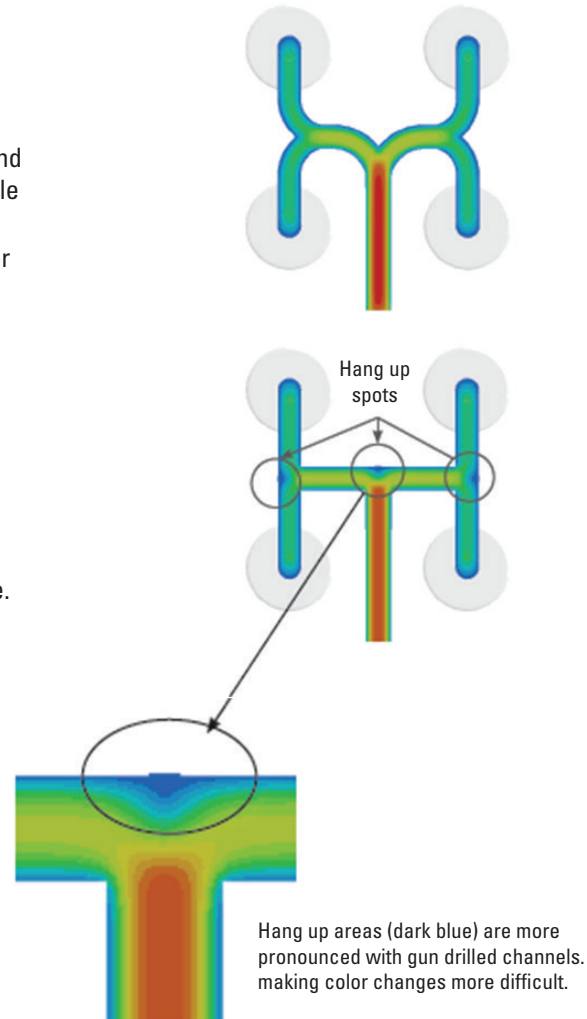
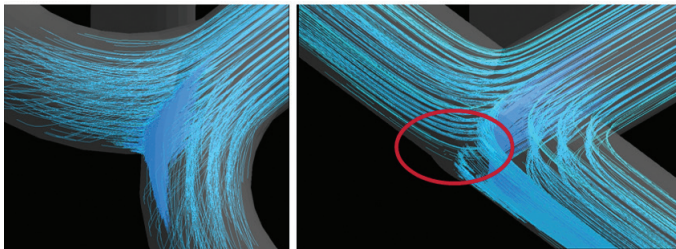


## CRITICAL INSIGHTS FOR RAPID COLOR CHANGE PERFORMANCE

- Oversized channels, poor corner designs, bad melt splitting layouts and mismatched melt channels can make efficient color change impossible
- Mold-Masters 2-piece iFLOW brazed manifold channels improve color change by eliminating angular flow paths that can create dead spots.
- The velocity flow simulations to the right compare iFlow and gun-drilled channels.
- Gun-drilled melt channel intersections produce natural stagnation points and high shear areas (dead spots show in dark blue).
- This causes the material opposite the melt channel intersection to stagnate while causing the material on the other side to accelerate.

### iFLOW

### CONVENTIONAL



## TempMaster<sup>TM</sup> series

### Hot Runner Temperature Controllers

## COLOR CHANGE PURGE WIZARD

To further enhance color change, Mold-Masters TempMaster hot runner temperature controllers incorporate our advanced Color Change Purge Wizard. This step-by-step guide takes into account resin type, temperature, the injection machine and other factors to clear resins more efficiently.

