

SIGNIFICANTLY IMPROVE PART QUALITY BY MINIMIZING BARREL BOW.

SymFill is a revolutionary technology that is exclusive to Mold-Masters that is enabled by our proven iFLOW manifold technology. Significantly improve part quality by minimizing barrel bow on cylindrical, centre injected components with an aggressive L/D ratio. Ideal for a variety of applications from the medical, packaging, cosmetic and stationery industries such as blood tubes, needle shields, over caps and other similar parts.

KEY FEATURES

REVOLUTIONARY TECHNOLOGY

- Specialized runner design.
- Reduces side load to minimize core deflection that causes barrel bow.
- Melt enters the nozzle bore from multiple sides.
- Maintains equal melt velocity.
- Equalizes pin shadow to the cavity.

BENEFITS

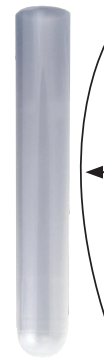
- Considerable down stream advantages.
- Tubes roll concentrically in the labelling machine.
- Increases final stage throughput.
- Minimizes machine downtime.

PUSH BOUNDARIES

- Success beyond blood tubes.
- Various applications, resins, tool designs and customers can benefit.
- Increases process window.
- Eliminate air traps, flow lines, etc.
- Enables processing of alternative resins.



Mold-Masters
Barrel Bow
As low as 0.15mm*
90% improvement



Current Benchmark
Barrel Bow
Up to 1.5mm



“Delivered the tightest concentricity tolerance from the first shot.”
-European mold maker

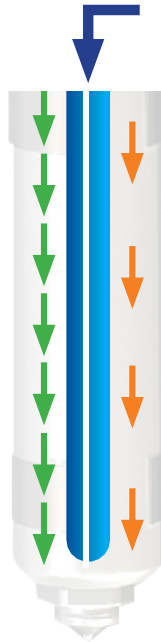
“Conventional”

SYMFILL
TECHNOLOGY

1) Melt being delivered from **one** side

2) Pin shadow creating unequal velocity when melt flowing along the pin

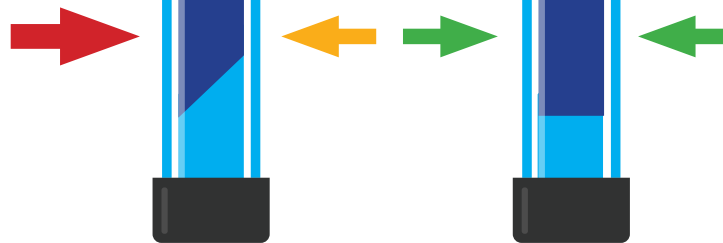
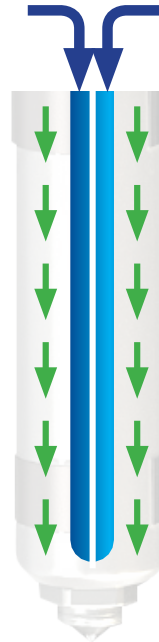
3) Unbalanced cavity fill creates side load = **core deflection**



1) Melt enters the nozzle bore from **multiple** sides

2) Pin shadow is equalized maintaining equal velocity

3) Reduced side load = **minimized core deflection**



Available exclusively with
iFLOW
MANIFOLD TECHNOLOGY

Application examples:
Blood tubes, needle shields, over caps and other similar parts from the medical, packaging, cosmetic and stationery industries.