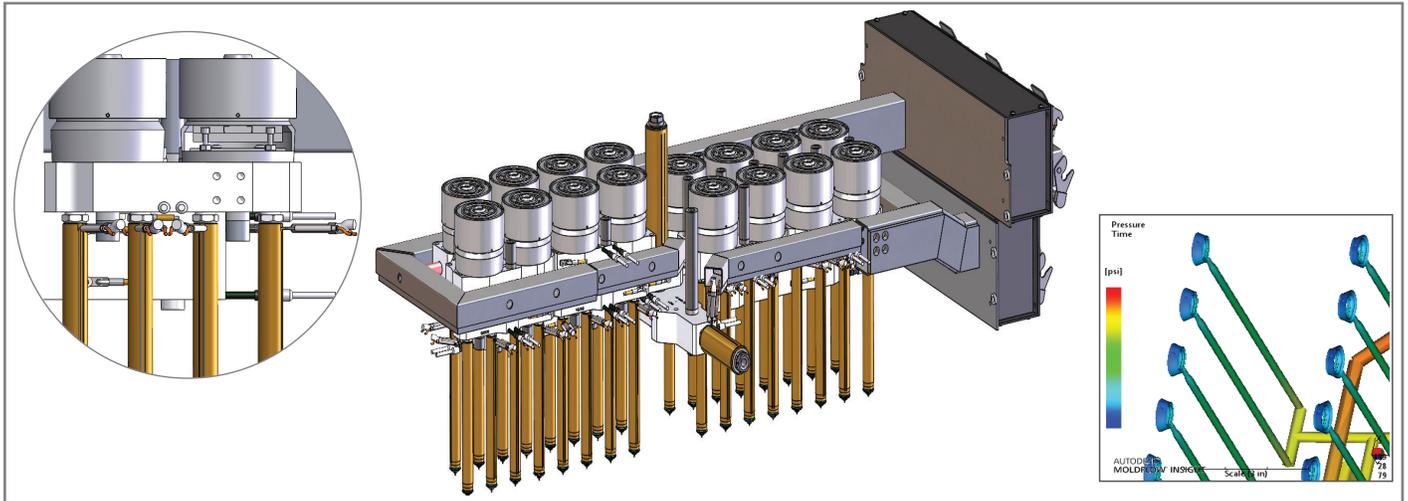


INCOE Engineering and Product Solutions For Two Component Mold Cuts Cycle Time by 36%

By using INCOE's hot runner engineering expertise and the right product technology to engineer a direct gated solution for this difficult application, productivity was greatly increased and all cold runners, and troublesome end-of-arm tooling were eliminated.



Utilizing INCOE's multi-pin pneumatic cylinder design, INCOE overcame the tight space constraints for this multi-cavity application.

At a global supplier of fastening solutions for the automotive, truck, and industrial markets, their line of multi-component molded products traditionally used hot runners to gate onto small cold runners. One of their US based facilities looked to INCOE for a method to direct gate both material components to eliminate the cold runner and avoid costly scrap, reduce cycle time, and eliminate problems typically caused by end-of-arm tooling.

INCOE had both the hot runner engineering expertise and the right product technology to engineer a direct gated solution for this difficult application and eliminate all cold runners.

Utilizing INCOE's multi-pin pneumatic cylinder design, INCOE overcame the tight space constraints for this multi-cavity application in order to gate directly on the part. The flexibility of INCOE's modular product range allowed a single solution for both injected materials (PA66 and TPV).

Similar molds at this facility using their traditional hot-to-cold runner gating method have typical cycle times of 25 seconds. By eliminating the cold runner for this application, a cycle time of 16 seconds was achieved - a reduction of 36%. Costly cold runner scrap and troublesome end-of-arm tooling was also completely eliminated.

The result of INCOE's hot runner solution was:

- Increased productivity
- Reduced cycle time
- Reduced part cost
- Elimination of cold runners

As a result of this project, this molder's US facility has set the benchmark with its sister facilities around the world for production quality and cycle time.

***“One of if not the best 1st shots
I’ve ever had on a tool.”***

- Project Manager - After mold try-out.