



## QUICK MOLD CHANGE GUIDE

Three ways to implement SMED (Single Minute Exchange of Die) in Injection Molding Operations.

Manufacturing Engineers strive to reduce setup times and maximize machine run times, increasing profits.

Setup times are reduced by converting internal operations (done when the press is idle) to external operations (done while the press is running). Additionally, setup times are reduced by using the

proper tools to decrease the time required by internal operations.

A select group of SMARTFLOW products help manufacturing engineers achieve their goals:

Duoflow® Manifolds

SWAP® Valves

FasTie® Quick Ejector Tie-In

**1 Duoflow Manifolds** convert an internal operation to an external operation by connecting all cooling water lines to a mold-mounted cooling water manifold. Reduce water hook-up to seconds by using one connection for Supply Water and one connection for Return Water with quick disconnect fittings on the ends.



**2 SWAP Valves** reduce time required for cooling line evacuation between mold changes to seconds instead of minutes while keeping shop floors clean. SWAP Valves use shop air to evacuate fluid from cooling lines with a single handle motion. The mold can then be changed. Resume main cooling fluid supply with the reverse handle motion.



**3 FasTie Quick Ejector Tie-In** slashes knockout connection time to seconds with quick couplers and studs. FasTie couplers reside in the press ejector plate. FasTie studs are fastened to each mold in storage. When a mold change is performed, ejector tie in is literally a snap.



**bunger &  
brown**  
engineering, inc.

4500 E 142nd St.  
Grandview, MO 64030  
Tel. 800-764-3518  
www.smartflow-usa.com

★★★★★  
**Made in USA**