

Moldflow Plastics Xpert® | Process Control

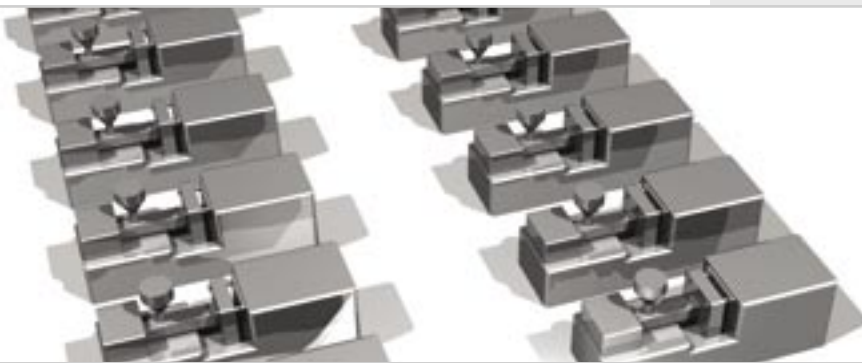


Moldflow Plastics Xpert® (MPX®) is an advanced control solution for the automatic setup, optimization and monitoring of the process window of an injection molding machine. Unlike other control solutions, MPX® can utilize the advanced simulation capabilities of Moldflow Plastics Advisers® (MPA®) and Moldflow Plastics Insight® (MPI®) software to provide an initial process configuration. MPX interfaces directly with the injection molding machine and provides on-line process correction with technology developed exclusively for the plastics injection molding industry.

Now, molding machine operators can consistently and systematically set up the process, perform an automated DOE (design of experiments) to determine a robust processing window, and automatically correct the process should it drift or go out of control during production.

"After using MPX on several injection molding machines, and experiencing the positive results and many benefits first-hand, it was an easy decision to expand our use of Moldflow's expert system and thus, further increase our production savings and part quality."

Jean-Paul Spillemaecker
Industrial Manager
Packaging and Injection
Department
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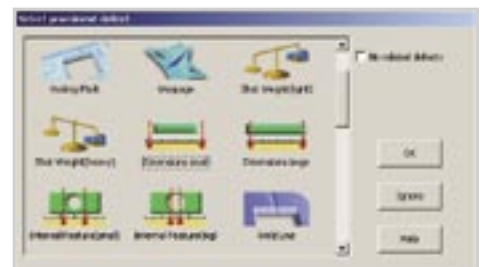


Process Setup

Allows users to automate the setup of the injection molding process through a series of velocity- and pressure-phase setup routines designed to systematically fix molded part defects. The objective is to achieve a combination of processing parameters which results in one good molded part.



Process Setup Pressure Routines

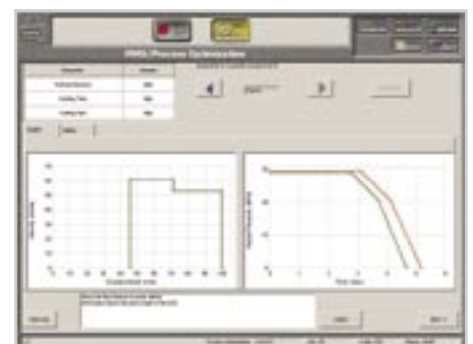


Process Setup Final Defect Elimination



Process Optimization

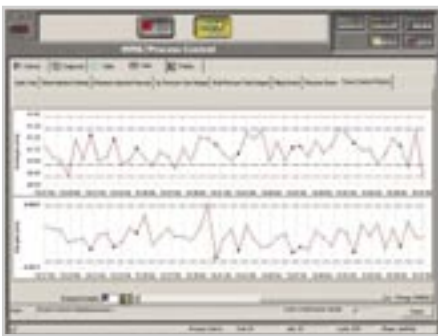
Easily allows users to run an automated design of experiments (DOE) to determine a robust, "good parts" processing window that will compensate for normal process variation and ensure that acceptable quality parts are produced consistently.



Process Optimization Design of Experiments



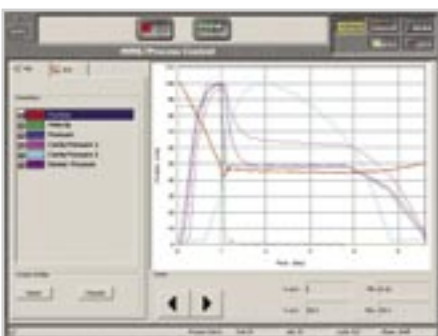
Process Control



Process Control SPC



Process Control Adviser



Process Control Traces

Process Control

Designed to maintain the optimized processing conditions determined with Process Optimization, resulting in reduced reject rates, higher part quality, and more efficient use of machine time. Process Control can automatically correct the process should it drift or go out of control and also can send relay signals to alarm operators or to divert suspect parts.

User Friendly

Unlike other products that simply monitor the injection molding process or are so complex that they require months of training to learn and often require highly specialized skills to operate, MPX can be learned and implemented quickly and easily. The Virtual Molding Machine allows users to experience all of the MPX functionality without the need to be connected to an actual injection molding machine.

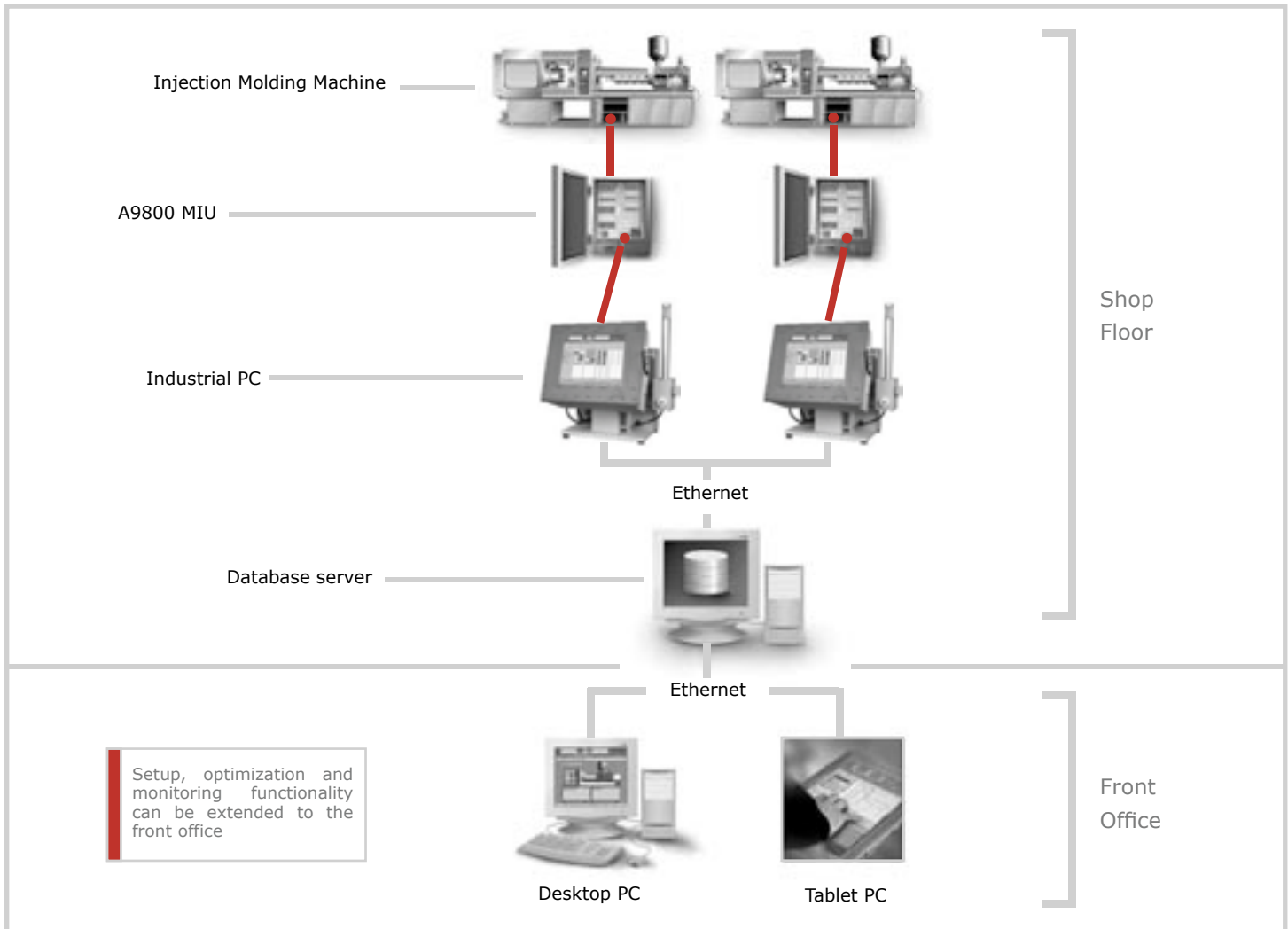
Intelligent Setup

With MPX you can decrease production setup times utilizing automated processes that are optimized through analysis and simulation, not trial-and-error. MPX can import results files from MPA and MPI simulations to generate the starting velocity and pressure profiles of the injection molding machine.

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Configurations



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