



Press release

Schaffhausen, October 2009

Hotrunner balancing now with cavity pressure sensors

Hot runner balancing based on cavity temperature has been established over the years mainly in medical technology. Over the time, many functions have been added to the existing system for a wide variety of applications. So it is now possible to adjust different filled molded parts not only by adjusting automatically the nozzle temperatures of a hotrunner but alternatively by timely controlled valve gates. This process is being used where no hotrunner system exists, such as in liquid silicone injection molding.

A patent is pending for our latest development, a system where the melt front in real time is not only detected fast and reliable by temperature sensors but also by cavity pressure sensors. The automatic detection of the melt front in real time is the fundament of a variety of applications which can not be accomplished by a simple switchover level because of its inactivity respectively a far too long switching delay. Thus cavity pressure sensors can now also be used for a reliable, fast and automatic switchover to holding pressure as soon as the melt reaches the sensor. Equally in sequential molding valve gates can be opened automatically when the melt arrives. Or venting cores can be closed automatically.

However the biggest impact has the new system on the automatic hotrunner balancing where not only temperature sensors, but alternatively also pressure sensors can be used. While the balancing of multi cavities with cavity temperature sensors is a particularly favourable and robust process, the method with cavity pressure sensors offers the possibility to monitor the melt compression. The monitoring of incompletely filled parts is with both procedures possible.

PRIAMUS SYSTEM TECHNOLOGIES AG
Bahnhofstrasse 36
CH-8201 Schaffhausen / Schweiz
www.priamus.com

Contact
Heidi Hug, +41 52 632 2605