

Press Release

Oberglatt, Oct, 23, 2007

New Control System maaxBF proves of value at pressure- and volume-constant process requirements

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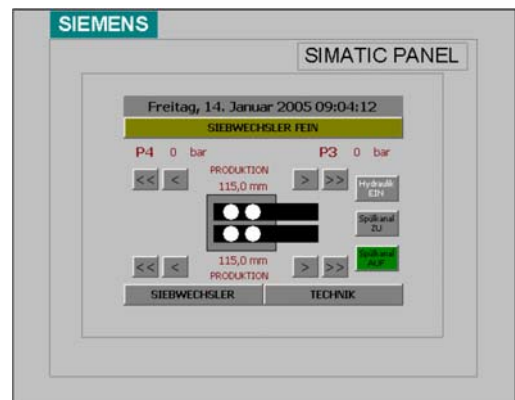
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The new control system maaxBF from Maag Pump System is the innovative advanced development of the former control system used for recycling applications and for applications with pressure- and volume-constant process requirements. It is available for new units and as a retrofit for existing installations. In the combination with the proven Maag piston screen changers the predecessor model was introduced into market two years ago already. Tailored to the proven double-piston Backflush Screen Changer CSC/BF-4F from Maag, it provides the user with new possibilities for cost-saving and increased product quality in the filtration of highly contaminated molten plastic materials. This control system, which is under patent application, has been developed to provide the user with the possibility to exclude the negative effects of quantity losses in the final product for the very first time. Until now, this kind of quantity losses has occurred in all Screen Changers commonly available on the market and during the cyclical backflush intervals of contaminated screens. In Mode 1, a new type of the dynamic screen bearing pistons' positioning monitors the delta-P standard value fixed by the user, by an automatic optimisation of the pistons' moving distances and waiting times. This reduces pressure variations considerably and prevents admissible product tolerances from being exceeded. In Mode 2, an almost absolute pressure and throughput constant condition is achieved in conjunction with a



Pic.1: maax BF



Pic.2: screen changer CSC BF-4F

40 constantly performing extruder or an extrex[®]-melt pump.

For this purpose, the extrusion die's preliminary pressure is modified for a controlled variable temporarily during the screen cleaning or ventilation processes, and the pressure reduction originated by
45 the quantity loss is compensated proportionately by a momentary speed increase. The constant material flow and the extrusion die's preliminary pressure guarantee the constantly high product quality.

50 The new control system maax BF is based on a proven hardware and is easy and safe to operate by means of a colour screen with integrated touch function.