



Newsletter October 2011

PRIAMUS FILLCONTROL: A new Era is beginning

PRIAMUS SYSTEM TECHNOLOGIES GmbH
 Postweg 13
 D-79084 Salach / Germany
 Tel. +49 (0)7162 930 60 480
 Fax +49 (0)7162 930 60 481
 www.priamus.com

PRIAMUS SYSTEM TECHNOLOGIES AG
 Schindlimattstrasse 36
 CH-8201 Schaffhausen / Switzerland
 Tel. +41 (0)52 632 2626
 Fax +41 (0)52 632 2627
 www.priamus.com

PRIAMUS FILLCONTROL
 Measure • Monitor • Switch • Control

Measure
 Module 1

Monitor
 Module 2

Switch
 Module 3

Control
 Module 4

The injection molding process is versatile and ranges from simple connectors that have to be completely filled to complex technical parts to be produced in a multi cavity hotrunner mold. For this reason, PRIAMUS has developed a (digital) state of the art platform which can be upgraded by a completely modular and flexible concept.

The requirements for only visualization in an laboratory will be much lower than in manufacturing for complex medical parts in a multi cavity hotrunner mold. Only with a modular concept the cost can be adapted to the actual needs!

Software modules for very different applications:

Measure

Module 1

The „Measure“ module is only used for simple data acquisition. This module is free of charge and is appropriate for all users who do not require switching or control processes such as schools, universities or mold makers for a simple way of mold setup.

Monitor

Module 2

The „Monitor“ module is the heart of the FILLCONTROL platform. This modul includes all functions which are required for professional and efficient monitoring:

- Monitoring of pressures, temperatures and machine signals
- Start-up mode
- Event protocol
- Professional analysis
- Monitoring of shear rate, shear stress, and therefore the viscosity of the melt in the cavity
- Monitoring of compression and shrinkage , and therefore strength and dimension.



Switch

Module 3 

The „Switch“ module provides all options which deal with manual or automatic switching operations. This way sequential molding processes are as well automatized as liquid silicone molding for instance.

This intelligent module can also detect bad parts and control individual alarm signals.

Control

Module 4 

The „Control“ module controls the flow, the compression and the shrinkage in hotrunners and cold runners.

By doing so the setup of the molding machine is changed via host computer interface until the optimal target values are achieved.

This way injection molds can be transferred from one machine to another without changing the surface, the dimension and the strength of the molded parts.

Modular hardware components:



The modular BlueLine system consists of a central control unit- the BlueLine Core- as well as freely expandable amplifier units and machine interfaces which can be clicked onto each other without using any cable connection.

The communication of the single units is made digitally via a realtime hybrid bus system.

For more details about BlueLine Hardware and FILLCONTROL Software platform, please visit us at our booth at the Fakuma 2011!



PRIAMUS at Fakuma 2011
18. - 22. October in Friedrichshafen, Hall A3, Booth 3205

We are looking forward to seeing you!



Special print „Hitting the nail on the Head“



In the June issue of „Kunststoffe International“ appeared the article „Hitting the nail on the Head“.

The authors, PRIAMUS CEO Christopherus Bader and Deputy Head of the Institutes for Polymer Nanotechnology (INKA) and Polymer Engineering (IKT) at the University of Applied Sciences Northwestern Switzerland (FHNW), explain the possibility to produce once optimized part with same conditions and same quality on different machines.

You can download the pdf file of this article with following link:
http://www.priamus.com/english/pdf/Hitting_the_nail_on_the_head.pdf

You can also order hard copies in our marketing department:

I.torras@priamus.com