



Beardsley & Piper Matchblomatic® Controls Upgrade

Bulletin Number

#2006004

Affected Products

All Beardsley & Piper Matchblomatic® molding machines that are currently controlled by a stepper switch or dated/difficult to maintain PLC processor.

Affected Parts

The new controls package consists of the following:

- a 30"x30"x10" control panel that houses an Allen Bradley series 5/05 processor
- a 10" color touch screen operator interface
- new software logic
- an Ethernet switch/modem to allow B&P engineers to diagnose machine problems via the telephone

Revision Date

January 30, 2006

The Issues

Many Matchblomatic machines that are still in operation use mechanical stepper switches to control the functions of these machines. These stepper switches have become increasingly difficult to replace and service because so few manufacturers continue to fabricate them, therefore Matchblomatic users are having a hard time maintaining these older machines. Additionally many Matchblomatic machines were built using Square D and older Allen Bradley programmable logic controllers, the users of these machines are finding that replacement parts for these components have become more and more expensive. Industry demands are requiring that these older machines become more sophisticated in their performance requiring in some cases recipe control, diagnostics, alarming, and better means of interfacing to other equipment. The older technology is not able to meet these requirements.

The Solution

Beardsley and Piper has developed a new controls package for these Matchblomatic machines. This controls package consists of a 30"x30"x10" control panel that houses an Allen Bradley series 5/05 processor. A new 10" color touch screen operator interface is provided in a separate 20"x24" x8" enclosure that can be mounted near the operator work area. This touch screen allows up to 255 recipes to be created and stored that provides customized control for a variety of pattern requirements. These variables include; blow pressure, blow time, number of blows, squeeze time, and vibrator sequence. In addition to these stored parameters a variety a parameters can be set for all patterns such as: delay times before and after blow, mold kiss time, and pattern spray intervals. The new software logic comes complete with auto and manual control, alarm detection and fault diagnostics. This controls upgrade includes an Ethernet switch/Modem which allows B&P engineers the ability to diagnose machine problems via the telephone.

The screen image on the following page provides an example of some of the recipe options available with the Matchblomatic upgrade.



To order this upgrade, please contact Simpson by phone (630-978-0044), fax (630-978-0068) or email (parts@simpsongroup.com).

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751 Shoreline Drive
Aurora, IL 60504 USA
Tel: +1 (630) 978-0044
Fax: +1 (630) 978-0068

Email: sales@simpsongroup.com

Web: www.simpsongroup.com

To find a representative near you, go to: <http://www.simpsongroup.com/contacts/contacts.htm>

