



Glue control systems for Multi-point gluers

The modular control system is designed to work on all types of gluers from simple hand fed machines through to multi-point gluers. This not only keeps our development costs down but means that you can have the same controller fitted to the whole range of machines used by today's sheet plants.

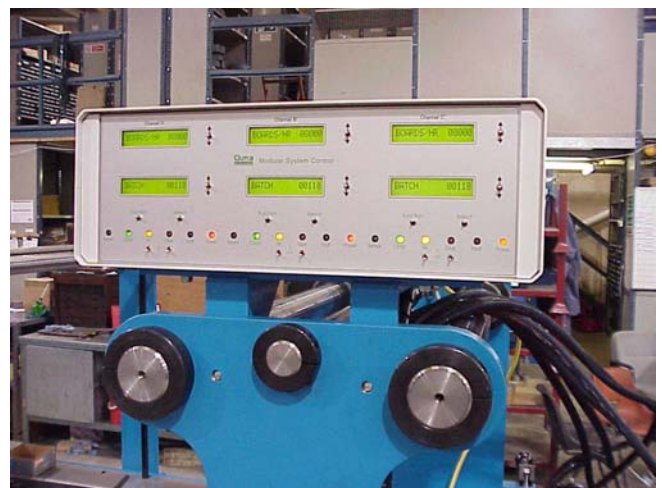
At the heart of the system are our series of MSC controllers - simple and easy to use but designed to work at speeds in excess of 10,000 blanks per hour and line speeds of up to 2 metres per second with our non-contact spray application heads.

MSC 1, 2 & 3 controller specification:

- Displays for batch count, boards per hour and speed
- Manual or Automatic glue position setting available
- Simple menu selection in five European languages
- Outputs for PVA Extrusion, Spray and Hot Melt guns
- Sensor contamination warning with alarm output
- Encoder input for variable speed or
- Internal clock for fixed speed applications
- Electronic glue pressure control output
- 115 or 230 V AC input, 24V DC outputs



MSC2 Twin channel controller



MSC3 Three channel controller

The controllers are sophisticated counter systems. They receive pulses from an encoder running at belt speed. The infra-red optical sensor picks up the leading edge of the board and initiates a count sequence and a series of calculations to determine precise start and stop positions for the glue application.

At the same time the pulses from the encoder are converted to a voltage output to drive the optional electronic glue pressure regulator. These devices are used on variable speed machines to accurately match the glue output to the speed of the machine.

When the photo-sensor picks up the leading edge of a board a signal is sent to the controller, a series of checks are made and, based on machine speed, a signal is sent to a solenoid valve to operate the spray valve.

System operation

Each MSC channel has up to eight glue patterns available in sequence:

MSC1, single channel control fires up to two heads for four point gluing only

MSC2, twin channel control fires up to four heads - for crashlock and four point gluing

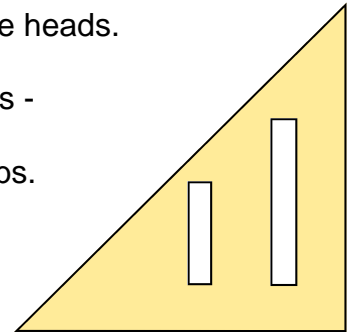
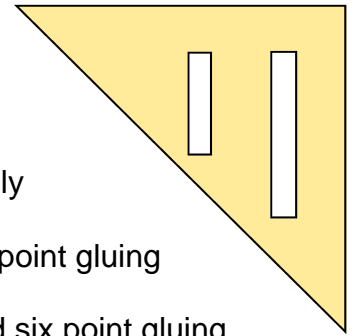
MSC3, three channel control, fires up to six heads - for crashlock, four and six point gluing

On a typical system on a multi-point gluer with three channels and five glue heads.

Channel A will fire heads 1 & 4 applying the long pattern on the corner tabs -

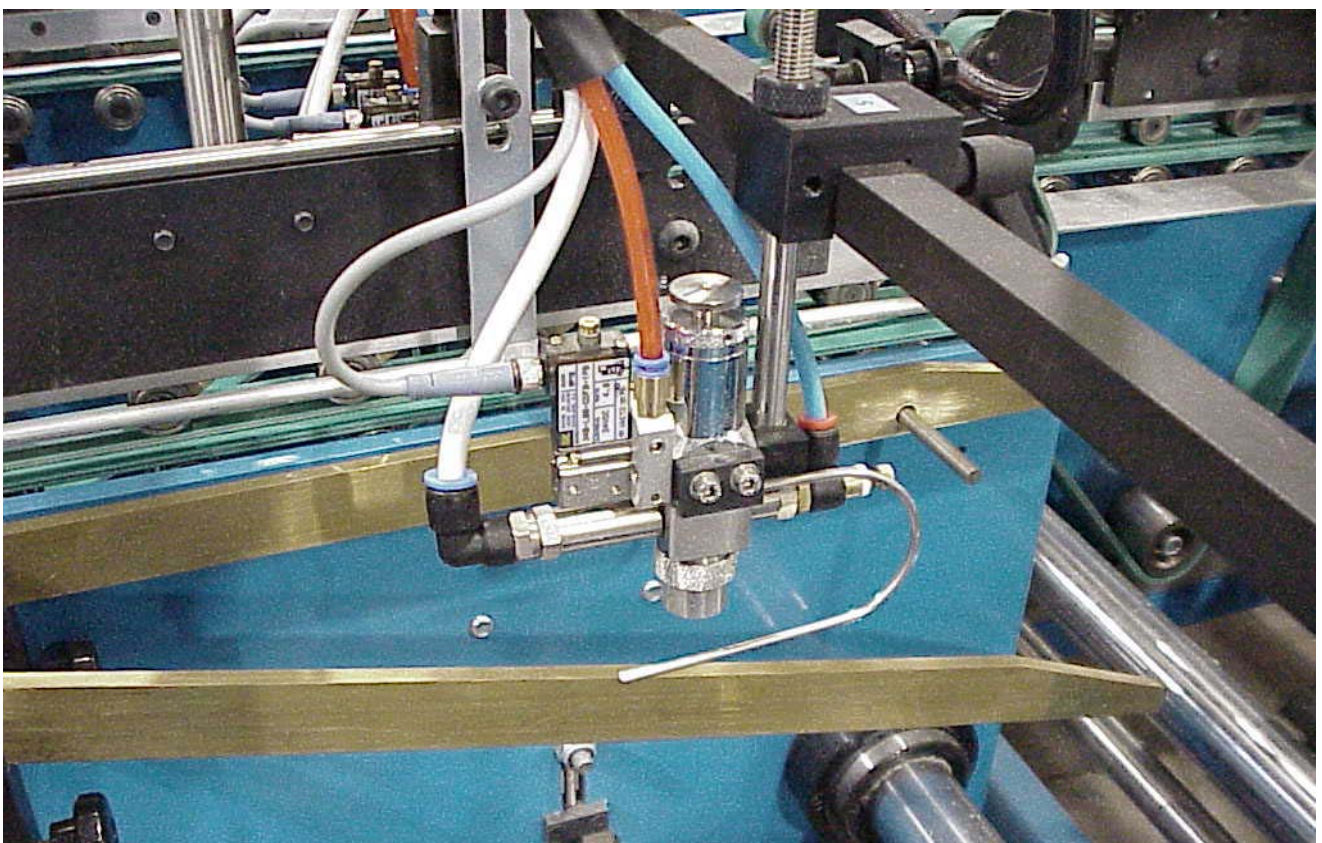
Channel B will fire heads 2 & 3 to apply the short pattern on the corner tabs.

Channel C will fire head 5 for the side seam application when required



Kaymich SV6 series spray valves

- Non-contact
- Variable pattern width from 5 to 10mm
- Self cleaning
- Fast acting with high repeatability MAC34 solenoid valves
- Glue viscosity range of 500 to 1000 cps
- 0.8mm nozzles
- All stainless steel wetted parts
- Simple square bar mounting system for heads and sensor for maximum flexibility



The most popular way of supplying glue to the glue valves is from one of our stainless steel pressure vessels.

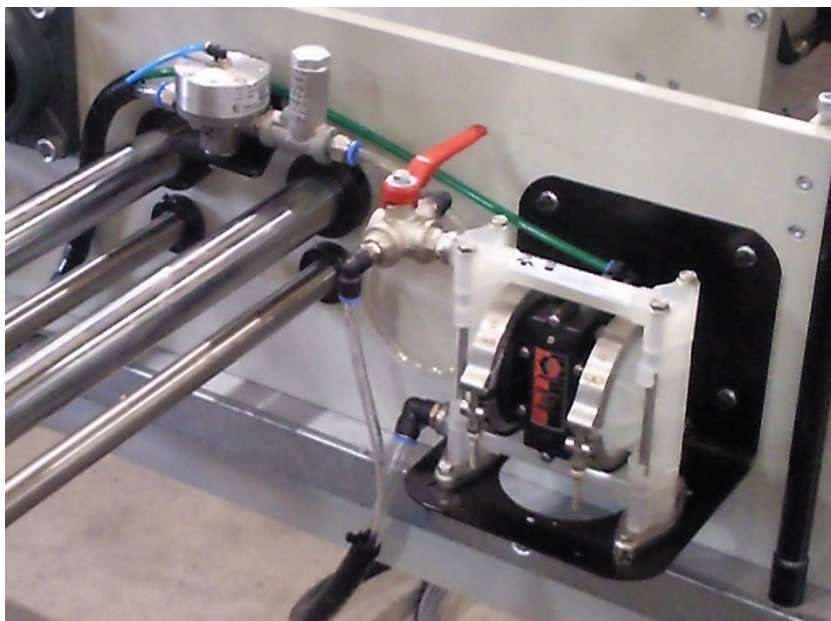
These are available in 1, 3 and 5 gallon sizes and are fully CE certified.

They have a safe working pressure of 140psi and are fitted with a safety pressure relief valve and manual pressure regulator where required.

Inside the tank a filter is fitted to a flexible dip tube making maintenance a simple task.

The lid of the tank is fitted with an O ring seal and the design of the tank makes it impossible to open the tank while it is under pressure.

If, however, your preference is to have glue supplied in larger drums or poly-containers we can also supply diaphragm pumps.



We use a 3/8" diaphragm pump which is reliable and easy to service when required.

For accurate pressure control we also fit a fluid pressure regulator which is controlled by our electronic pressure regulator.

The system uses an in-line high pressure filter to protect the valve and beading tip from contamination.

The pump may be supplied with a dip tube for open barrels or direct connection to a one tonne poly-container.

If you require any further information or would like a quotation for a system please contact us by telephone, fax or email.

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Adhesive Application Specialists