



Glue control systems for folder gluers and case makers

The modular control system is designed to work on all types of folder gluers from simple hand fed machines through to case makers. 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 is our MSC 1 controller - simple and easy to use but designed to work at speeds in excess of 20,000 blanks per hour and line speeds of 5 metres per second.

MSC 1 (Single Channel) 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



The controller is a sophisticated counter system. It receives pulses from an encoder running at belt speed or from the internal pulse generator on fixed speed machines. The infra-red optical sensor picks up the leading edge of the box 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.

rotary encoder



infra red sensor



electronic regulator

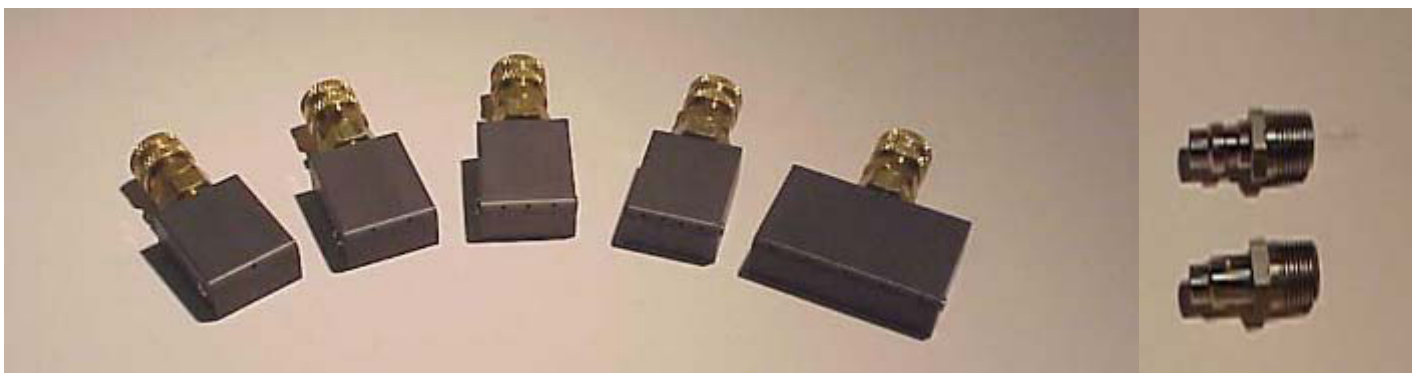




When the optical sensor picks up the leading edge of a board a signal is sent to the controller, a series of checks are made and, based on machine speed, a signal is sent to a solenoid valve to operate the glue valve. This is a high speed stainless steel diaphragm valve that allows glue to flow to the beading tip which extrudes up to four lines of glue on to the board. These beading tips are fitted with a quick - release connector to allow rapid change and cleaning to take place.



The glue valve is usually mounted on one of our side mount panels with adjustable board guides and photo-sensor mounting. The glue head is also adjustable for height and operating angle and can quickly be disconnected and remounted under the board to allow outside glue lap boards to be processed if required.



Glue beading tips are available in a variety of patterns but the most popular are 1, 2, 3 & 4 bead. They are made from hard wearing anodised aluminium but, for high wear applications stainless steel tips are also available.

The quick release connectors are also available in rotating and fixed versions to suit different applications. The glue valve is supplied with a quick release blanking cap to stop the glue from drying in the valve overnight if the beading tip has been removed for cleaning.

A comprehensive valve repair kit is available with 4 sets of seals, springs and an allen key so that it can be stripped, cleaned and rebuilt when required.

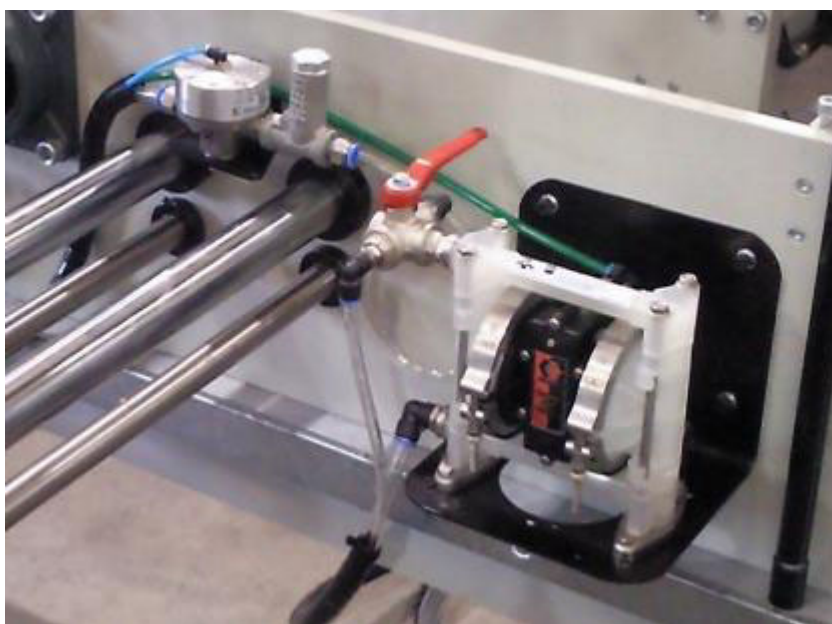


The most popular way of supplying glue to the glue valve is from one of our stainless steel pressure vessels. These are available in 1, 3 and 5 gallon sizes and are fully CE certified. They have a safe working pressure of 140psi and are fitted with a safety pressure relief valve and manual pressure regulator 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.

Telephone: +44(0)1908 324930  
Facsimile: +44(0)1908 322707  
Mobile Tel: +44(0)7846 262447 - Adam  
Email: [info@qumasystems.co.uk](mailto:info@qumasystems.co.uk)  
Website: [www.qumasystems.co.uk](http://www.qumasystems.co.uk)

Address: 25 Alston Drive, Bradwell Abbey, Milton Keynes, MK13 9HA

**Quma** SYSTEMS  
Adhesive Application Specialists