



Glue control systems for semi-auto and stitcher gluers

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.

This is the same controller that we use on case makers and high speed auto-gluers but some features may be hidden if not being used in these applications.

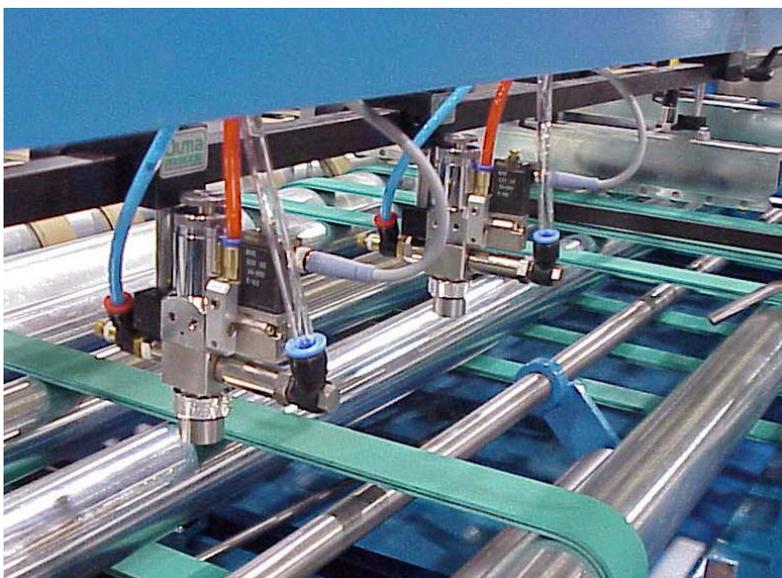
MSC 1 (Single Channel) controller specification

- 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.

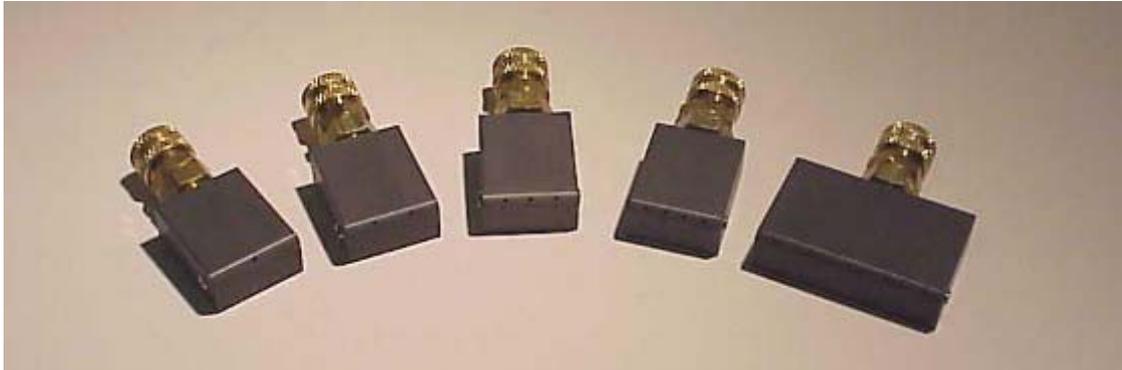
On open frame machines it is practical to fit spray application heads as shown on the Andrew & Suter Multi-Nova gluer below. These have the benefit of being self cleaning and having adjustable pattern width by raising or lowering the glue valve.



Kaymich SV6 spray valves

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

On machines such as stitcher-glue, where the board is presented in a pre-folded state, it isn't always possible to use a spray valve because of height restrictions. In these cases a stainless steel diaphragm valve is used that allows glue to flow to a beading tip which can extrude 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.



Glue beading tips are available in a variety of patterns but the most popular are 1, 2, 3 & 4 bead.

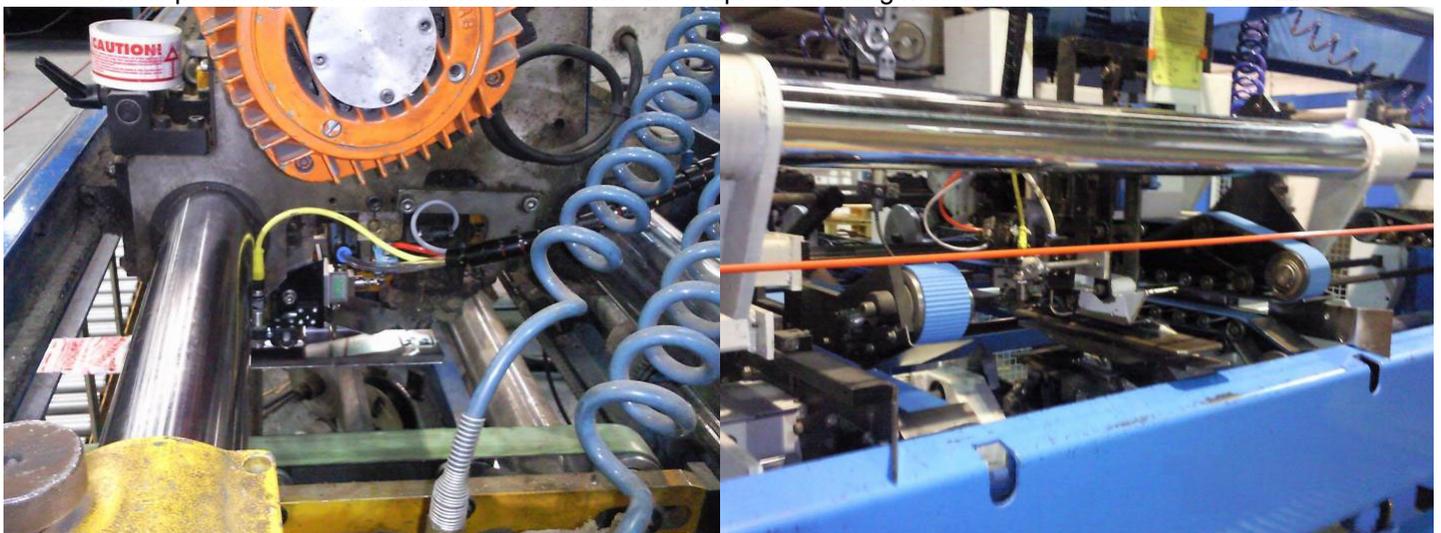
We also have offset beading tips for special applications. They are all made from hard anodised aluminium but, for high wear applications, stainless steel tips are also available.

The quick release connectors are also available in rotating and fixed versions to suit different applications. The glue valve is also 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.

On some stitcher-glue it may not be practical to use our standard beading tips and a tubular stainless steel nozzle is fabricated instead. This can be either fixed mount or use a quick release mount so that cleaning is still a simple matter.

These pictures show installations on Sodeme and Rapidex stitching machines - both with tubular nozzles



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

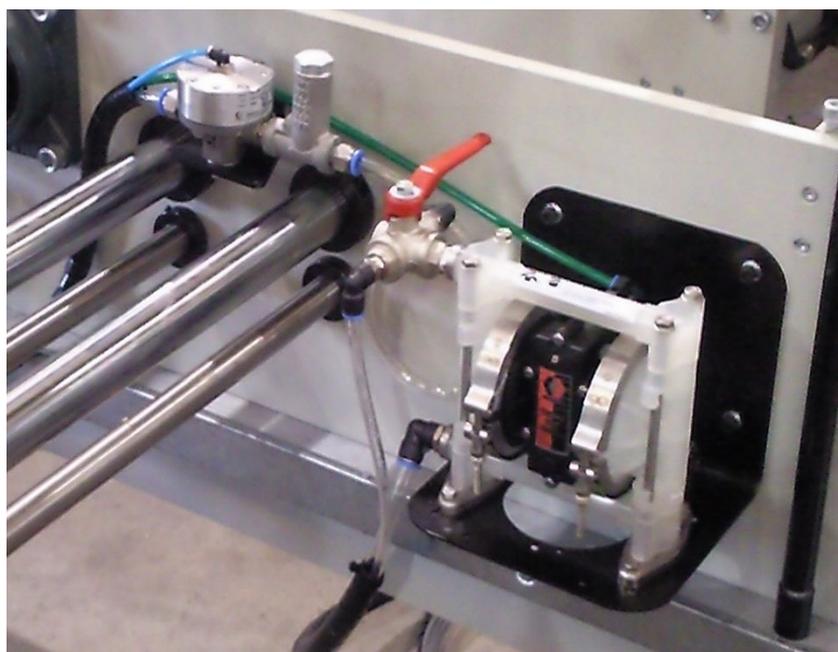
These are available in 1, 3 and 5 gallon sizes and are fully CE certified.

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 can be controlled by a manual or electronic pressure regulator.

The system uses an in-line high pressure filter to protect the system 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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