

microglue®



Adhesive Application Systems

Delivery Systems

Two and five gallon wide mouth tank assemblies come complete with corrosion resistant valves, filters, quick release couplers, and compression fittings. Air regulators, pressure relief valves, and gauges are also included.



GMS pumping systems are fully enclosed and assembled with corrosion resistant valves, filters, quick release couplers and compression fittings. These dual diaphragm pumps are capable of delivering high viscosity glues at substantial rates.

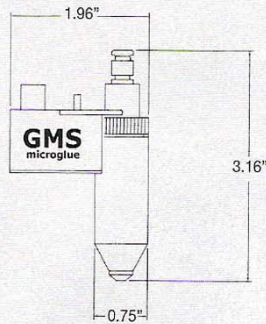
A separate 2 gallon tank assembly with three way valve allows applicator heads or entire system to be easily flushed and cleaned. The addition of an electronic assembly for use with the **microglue+** further simplifies the process. These assemblies contain all the required parts to completely outfit your system.



Extrusion Hoses feature integrated electrical heating for application of hot melt adhesives. Designed with Teflon cores, stainless steel braided reinforcing, and a rugged polyester braided cover, these hoses insure uniform heat and resistance to abrasion. hose are available in various lengths up to 18 feet.

Applicator Valves

GMS offers a number of patented non-contact applicator valves, all designed for fast response times, durability, and ease of maintenance.



The **HP** valve is capable of running glues up to 1500 centipoise and includes an integrated volume adjustment. An optional 3-way valve allows for a quick switch between glue and water, simplifying cleanup. Pneumatic tip sealing shutters are also available.



The **HV** valve, with its narrower design, is capable of running glues with viscosities up to 750 centipoise. All **GMS** cold glue valves feature an integrated purge button for ease of maintenance.



The **IGV** valve is a totally integrated time based unit - eliminating the need for a separate controller, making it ideal for palletizing and simpler applications.



The **LP** valve features a very low profile making it ideal for use in tight spaces, including in-plate gluing on sheet fed folders. All **GMS** valves can be supplied with a variety of nozzle orifice sizes to satisfy virtually any application.

Controllers

GMS combines expertise in electronic, mechanical, and software engineering to offer a range of controllers suitable for the application of cold and hot melt adhesives. All controllers include patented automatic speed compensation for precise positioning of glue patterns.

microglue 204



The **Model 204** controller offers two separate channels each capable of controlling up to four applicator valves for dot, stitch, or line gluing. Channels may be linked together or to other controllers for more complex applications. Batch counting with an external output is standard.

Power Source..... 90 - 240 VAC @47-440 Hz
 Glue Valve Output..... 12 or 24 VDC
 Shutter Output..... 12 or 24 VDC
 Batch Kicker Output..... 12 or 24 VDC

Tickle Voltage Output..... 48 VDC = .25 - 1 ms
 Size: HxLxW..... 6.125 x 11.625 x 12.5 inch
 Weight..... 2.25 lbs. / 1 Kg.

microglue 801

The **Model 801** controller includes eight separate channels with four events per channel, two encoder inputs, two optical inputs, and two highly visible four line VF displays - one for machine functions, the other for pattern control.



Power Source..... 90 - 240 VAC @47-440 Hz
 Glue Valve Output..... 12 or 24 VDC
 Shutter Output..... 12 or 24 VDC
 Batch Kicker Output..... 12 or 24 VDC

Tickle Voltage Output..... 48 VDC = 0.0 - 2.5 ms
 Proportional Controls..... 0 - 10 VDC
 Size: HxLxW..... 5.125 x 11.625 x 12.5 inch
 Weight..... 12 lbs. / 5.5 Kg.



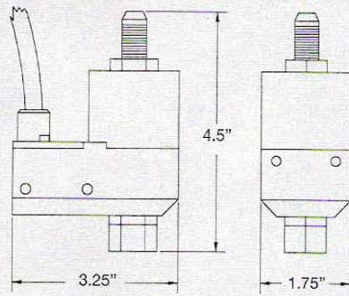
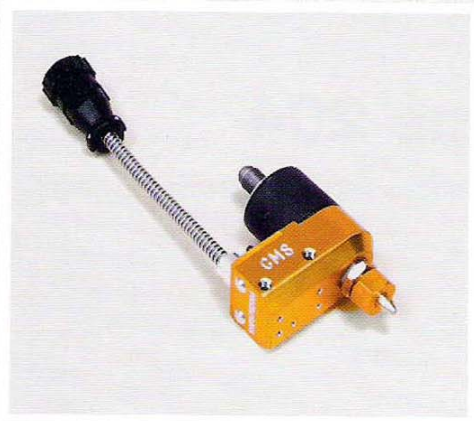
microglue+

microglue+ features a full color touch screen display capable of controlling up to eight separate channels, with four events per channel. Proportional control, two position and optical inputs, glue level sensing, and networking capabilities insure optimum system flexibility.

Power Source..... 85 - 264 VAC @47-440 Hz
 Glue Valve Output..... 12 or 24 VDC
 Shutter Output..... 12 or 24 VDC
 Batch Kicker Output..... 12 or 24 VDC

Tickle Voltage Output..... 48 VDC = 0.0 - 2.5 ms
 Proportional Controls..... 2@ 0-10 VDC / 4-20 ma
 Size: HxLxW..... 6.125x11.625x12.5 inch
 Weight..... 12 lbs. / 5.5 Kg.

Applicator Valves



The **EG** electric valve features complete electronic operation - no air required for extrusion applications. Precise needle and seat action produces clean cutoffs and prevents dripping. A built-in thermistor sensor insures accurate control. The free floating valve design eliminates the need for internal seals, optimizing its useful life

Mounting..... 2-1/4 - 20 (2 mounting Holes / Side)
 Fittings..... Male 37° #6 JIC
 Application Temp..... Up to 425° F / 218° C
 Electrical Draw - Heater..... 28 Watts

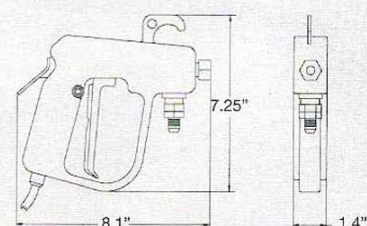
Temperature Accuracy..... ± 2%
 Warm-up Time..... 15 minutes
 Viscosity Range..... Up to 20,000 centipoise
 Operating Speeds..... Variable up to 6,000 cpm

The **SC** applicator valve has an electronically operated valve with pneumatic assist. It permits pressure sensitive and remoistable adhesives to be applied in varied and precise patterns.

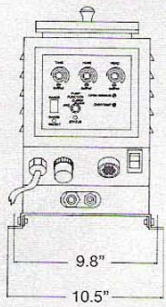


The **HG Handgun** is designed for ease of use and efficient dispensing of hot glues. A versatile unit that can be used with a wide range of nozzle designs. Precise needle and seat action prevents dripping, and includes a built-in thermistor sensor for accurate temperature control.

Application Temp..... Up to 425° F / 218° C
 Temperature Accuracy..... ± 2%
 Viscosity Range..... Up to 20,000 centipoise
 Viscosity Range..... Up to 20,000 centipoise
 Weight..... 1.7 Lbs. (.77 Kg.)



Hot Melt Units



GMS 12-1 is designed for a single hose and applicator and has a 12 lbs./hr melt rate, 28 lbs./hr pump rate, and 3 zone temperature control over 7 ranges up to 410 degrees F.

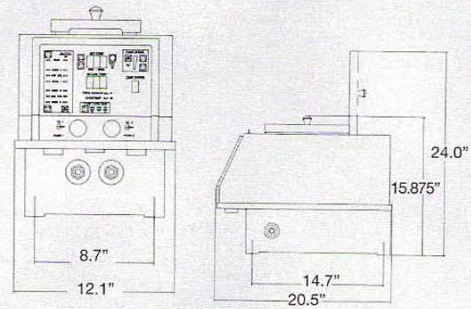


Melt Rate..... 12 lb/hr (5.5 kg/hr)
 Pump Rate..... 28 lb/hr (12.5 kg/hr)
 Viscosity Range..... Up to 20,000 centipoise
 Tank Capacity..... 12 lbs (5.5 kg)
 Warm-up Time..... 30 minutes

Max Power Consumption:
 Complete System..... 1500 watts
 Power Consumption: Melt Unit..... 900 watts
 Power Requirements:
 Single Phase..... 115VAC 50/60 Hz / 230VAC 50/60 Hz

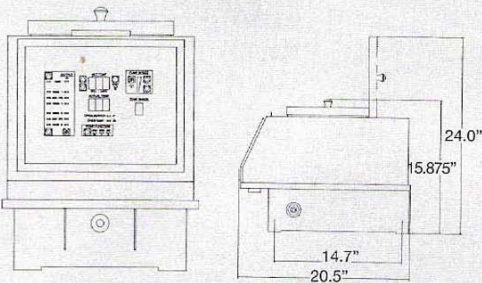


The **GMS 14-2** has dual hose/applicator capacity with 2 channel controls. It features a 5 zone temperature control over 6 ranges. It has direct connect ports for control devices, timers and foot switches.



Melt Rate..... 28 lb/hr (12.7 kg/hr)
 Pump Rate..... 70 lb/hr (31.7 kg/hr)
 Viscosity Range..... Up to 30,000 centipoise
 Tank Capacity..... 14 lbs (6.3 kg)
 Warm-up Time..... 30 minutes

Max Power Consumption:
 115 V System..... 2000 W / 230 V System... 4000 W
 Power Consumption: Melt Unit..... 900 watts
 Power Requirements:
 Single Phase... 115VAC 50/60 Hz / 230VAC 50/60 Hz



The **GMS 34-4** has 4 hose/applicator capability with 4 channel controls, standby mode and 9 zone temperature control over 6 ranges up to 425 degree F.



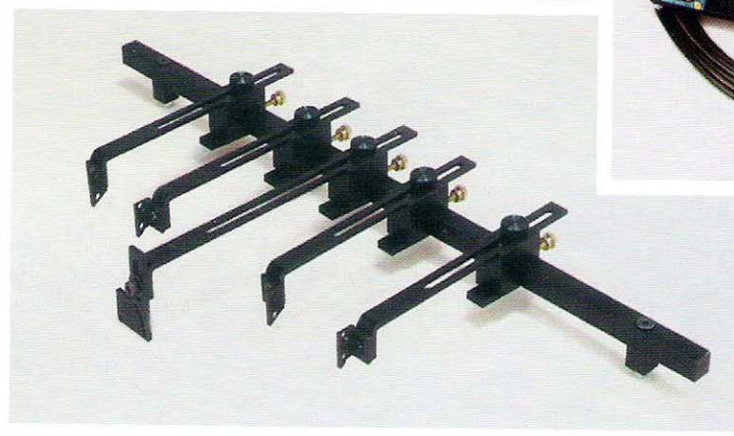
Melt Rate..... 75 lb/hr (34 kg/hr)
 Pump Rate..... 100 lb/hr (31.7 kg/hr)
 Viscosity Range..... Up to 30,000 centipoise
 Tank Capacity..... 34 lbs (15.4 kg)
 Warm-up Time..... 30 minutes

Max Power Consumption
 230 V System..... 6600 watts
 Power Consumption - Melt Unit..... 3400 W
 Power Requirements
 Single Phase..... 230VAC 50/60 Hz

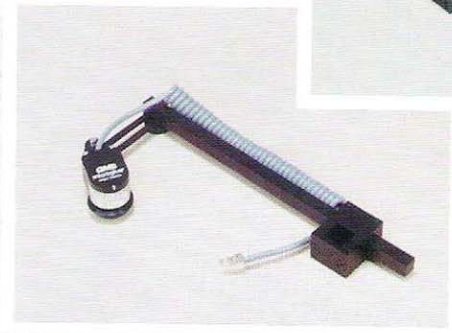
Brackets and Accessories

GMS offers an extensive line of brackets, nozzles and accessories that provide flexibility for a wide variety of applications.

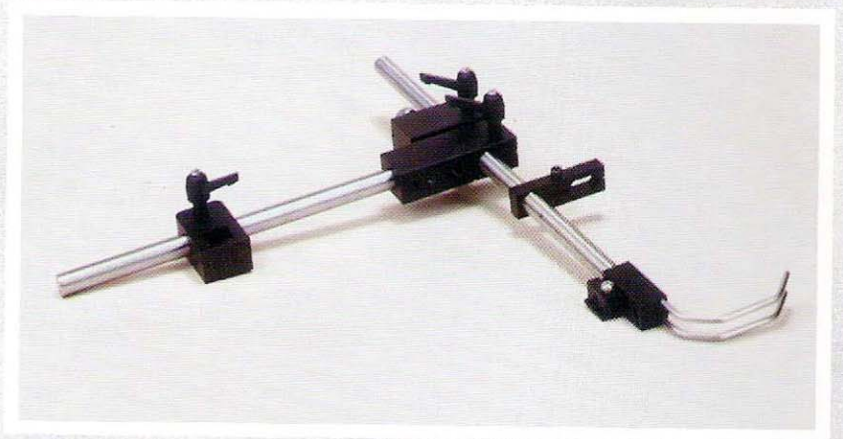
Inplate Bracket Assembly



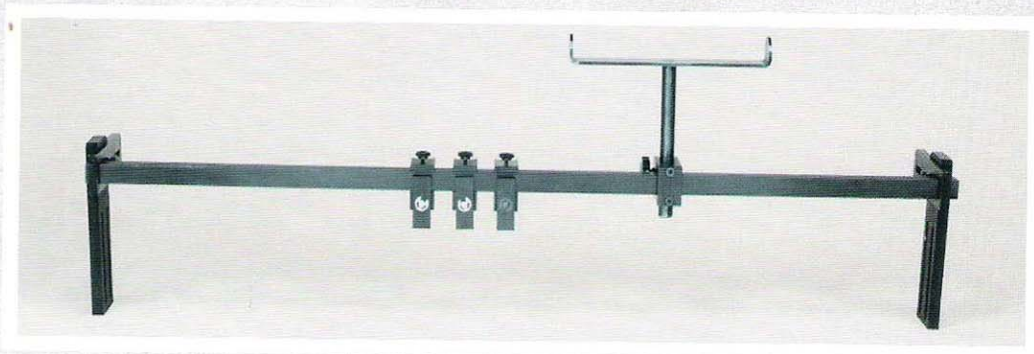
Optical Sensor Assembly



Encoder Assembly



Heavy-Duty Micro Adjust Mounting Bracket



Cross Bar Mounting Bracket Assembly

GMS

Gluing Machinery & Systems, Inc