

# microglue®

## HP Cold glue gun

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*Compact efficient design delivers sharp adhesive cutoff, and is available with both tip sealing shutters and 3 way glue/water valve.*

### HM-100 Electric gun

**Adjustable volume control**

**Very high speed for small dots**

**Standard electric purge switch**

**Quick disconnect fittings**

**Carbide ball and seat**



HP series electric guns are designed to provide performance, precise pattern control and outstanding cutoff results with fugitive, permanent or pressure sensitive adhesives.

A knurled knob or 1/2" open end wrench adjusts the valve stroke, allowing the operator to vary the volume of adhesive dispensed while in operation. This makes it simple to achieve exact pattern consistency between glue guns.

Want small dots? It's not a problem for the HP gun which operates at speeds up to 30,000 cycles per minute (1000Hz). The total cycle time is less than 1 ms with glues under 100 cps and under 2 ms for glues between 100 and 400 cps. Its pneumatically controlled tip sealing shutter mechanism enables the HP to be ready to go even after sitting unused for long periods of time.

The HP 12 volt DC coil is rated for 100% duty cycle even during high speed stitching.

The HP glue valve can be ordered or retrofitted with an attachable 3-way easy clean valve. This valve allows the applicator to be purged of glue and cleaned with fresh water in a matter of seconds thanks to the HP's electric purge switch located directly on the gun.

The HP's shutter mechanism automatically opens and closes whenever the machine starts and stops. This design dramatically reduces the need for wiping or cleaning the nozzle orifice between uses. The pneumatically powered shutter's rubber pad securely covers the orifice so that any glue within remains ready to use.

The HP's ability to operate with a wide range of adhesive viscosities makes it equally at home in a broad range of applications including direct mail, packaging and paper converting.

**GMS**



## HM-100 high speed electric gun

### *Specifications:*

Maximum Working Hydraulic Pressure	125 psi
Working Viscosity <sup>1</sup>	2,000 cps
Cycle Speed <sup>1</sup>	60,000 cpm ( 1000 Hz)
Electrical Connection	Hirose 6 pin Quick Disconnect
Electrical Requirements	12 VDC with .75- 1.25 ms 48 VDC spike
Nozzle Diameter Range	.0055 in to .024 in ( .15mm to .6mm)

<sup>1</sup> Performance will be affected by higher viscosity adhesives.  
Recommended viscosity is 400cps for optimum performance.  
Higher viscosities can slow cycle rates and minimum duration.

The HP adjustable valve stroke dial is easy to adjust during operation. Simply turn the dial clockwise to decrease the flow or counter clockwise to increase the flow. This feature allows multiple guns running on a common delivery system to deliver varied glue line/dot volumes without changing nozzle diameters.



The 3-way easy clean valve attaches directly to the top of the HP glue gun. It allows the system to be cleaned quickly and easily. The 3-way easy clean valve is manufactured using all corrosion resistant materials.

<b>Performance Parameters</b>	GMS 204, 801, + controllers
Maximum cycle rate/minute For stitch or dot operation	60,000 cpm ( 1000 Hz) < 100 cps 30,000 cpm ( 500 Hz) > 100 cps
Minimum pattern length	.8 ms +/- .3ms
Minimum pattern gap	.8 ms +/- .3ms
Minimum dot size @ 1000 ft/min	.2125 inches / 1000 ft / min
<b>Electrical specifications</b>	
Coil resistance	18 Ohms
Optimum control signal	48 VDC for 1ms hold at 12 VDC
Power consumption	8 watts during hold

