



# EM-900 Series Electric Gun

*Compact, modular electric gun delivers sharp adhesive cutoff and a wide range of bead patterns.*

## EM-900 electric guns:

- Install quickly and easily
- Increase machine uptime
- Require less maintenance



Modular EM-900 series electric guns provide rugged performance, precise pattern control and consistent sealing results in a compact size.

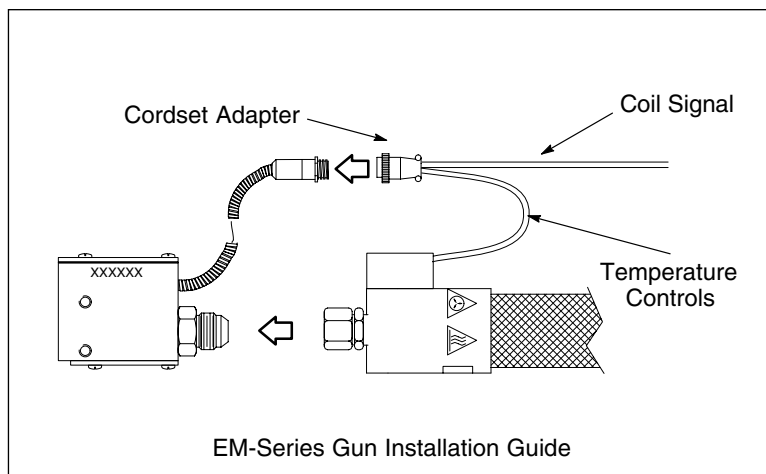
The EM-900 guns operate at speeds up to 6000 cycles per minute with a duration as low as 4 milliseconds. An external driver path allows the use of AC or DC signals to energize the coils on the modules. A separate signal cable assembly provides a path for the gun actuation signal.

Efficient gun design and a small work envelope allow multi-module capability in a choice of profiles to fit tight parent machine constraints. Single and multi-module configurations allow pattern

flexibility for a range of mainstream packaging applications. Each fast-acting module supplies adhesive to a single nozzle, delivering sharp cutoff and allowing multiple bead patterns. Up to eight individual modules and blanking kits arrange on the manifold for specific adhesive pattern spacing. Modules are interchangeable for easy cleaning and replacement.

The all-electric design of the EM-900 series eliminates the need for compressed air, dynamic seals and high-maintenance components. The inlet to the gun manifold uses Nordson's standard O-ring port and is compatible with Nordson Saturn<sup>®</sup> inline filters.

## EM-900 Series Electric Guns



### Gun Specifications

<b>Maximum Working Hydraulic Pressure</b>	800 psi (55 bar) – spike driver 550 psi (38 bar) – AC signal
<b>Working Viscosity<sup>1</sup></b>	Maximum 25,000 cps
<b>Cycle Speed<sup>2</sup></b>	Up to 6000 cpm – spike driver DC Up to 600 cpm – AC signal
<b>Electrical Connection</b>	Quick-disconnect
<b>Operating Temperature<sup>2</sup></b>	100-450°F (38-232°C)
<b>Heating Method</b>	Replaceable cartridge heater
<b>Electrical Requirements</b>	115 VAC 60 Hz or 230 VAC 50/60 Hz
<b>Temperature Sensing</b>	Replaceable RTD 120 Ohm
<b>Nozzle Diameter Range<sup>3</sup></b>	.016 in to .050 in (.4 mm to 1.3 mm)

**Notes:**

<sup>1</sup> Performance will be affected by higher viscosity adhesives. Recommended viscosity is 1000 cps for optimum performance. Higher viscosities can slow cycle rates and minimum duration and shorten service life.

<sup>2</sup> Maximum cycle rate depends on application temperature and adhesive viscosity.

<sup>3</sup> Nozzles are specified and purchased separately.



### Electric Valve Performance by Power Source

Using 1000 cps packaging grade adhesive

Performance Parameter	Standard AC Power	HD2A/HD4A Head Driver
Maximum cycle rate/minute for continuous firing	600 cpm	4000 cpm
Maximum cycle rate/minute for short bursts	600 cpm	6000 cpm
Minimum pattern length	50 ms ± 15 ms	4 ms ± 1 ms
Minimum pattern gap	50 ms ± 15 ms	4 ms ± 1 ms
Minimum cycle time for continuous firing	100 ms ± 20 ms	15 ms ± 2 ms
Adhesive pressure max.	450-550 psi (31 to 38 bar)	600-800 psi (41 to 55 bar)
Pattern registration accuracy		
100 fpm (30 mpm)	± 0.30 in (7.62 mm)	± 0.01 in (0.3 mm)
500 fpm (150 mpm)	± 1.50 in (38 mm)	0.05 in (1.3 mm)

Note: Consult Nordson representative for performance requirements exceeding the above specifications.

For more information, talk with your Nordson representative or contact your Nordson regional office.

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