

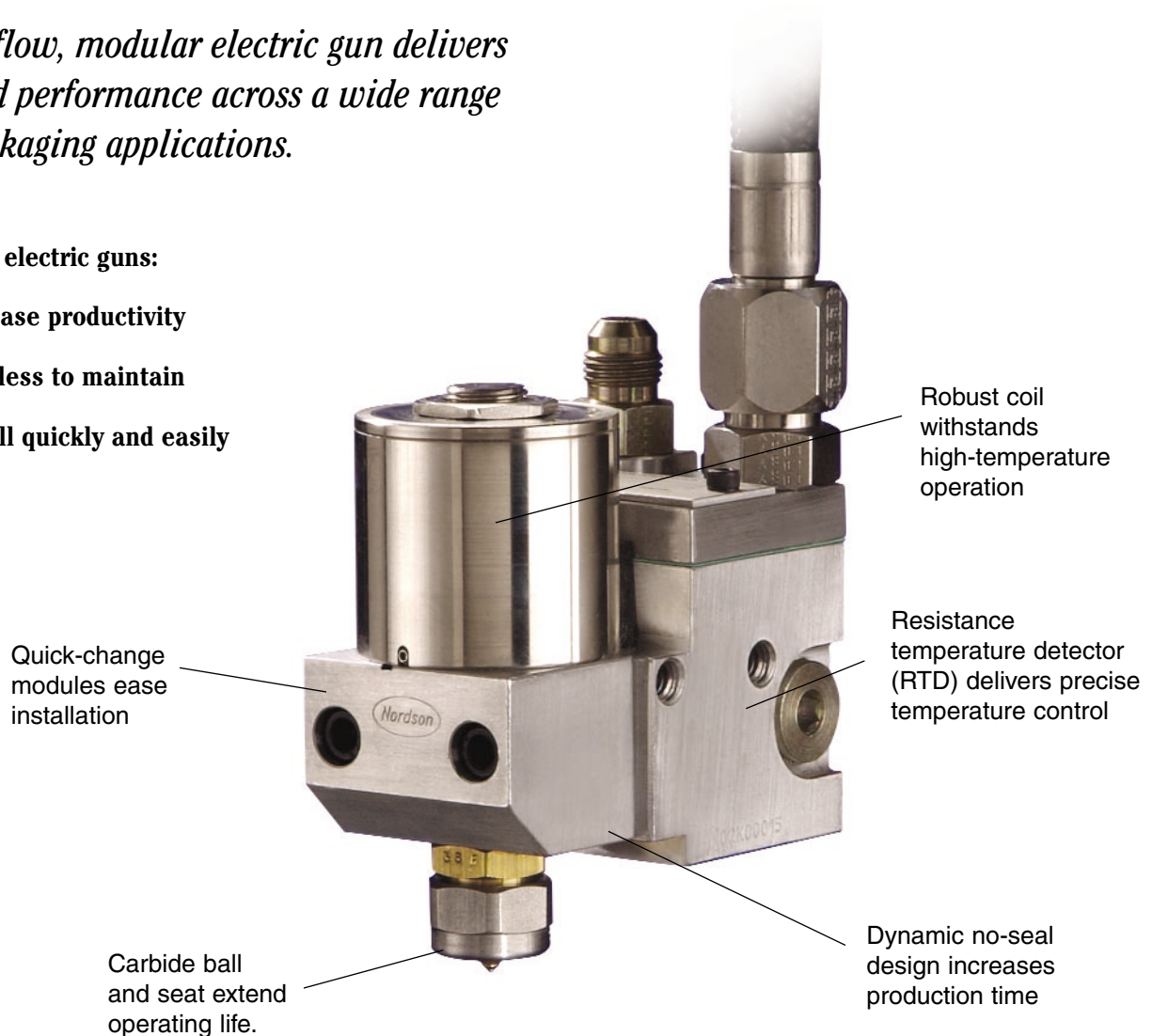


EM-100 Series Electric Gun

High-flow, modular electric gun delivers rugged performance across a wide range of packaging applications.

EM-100 electric guns:

- Increase productivity
- Cost less to maintain
- Install quickly and easily



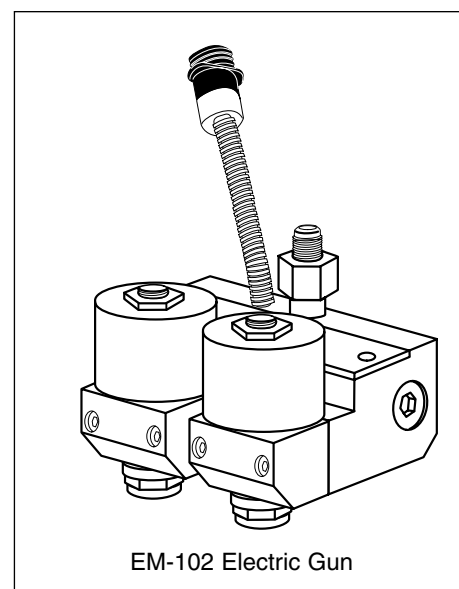
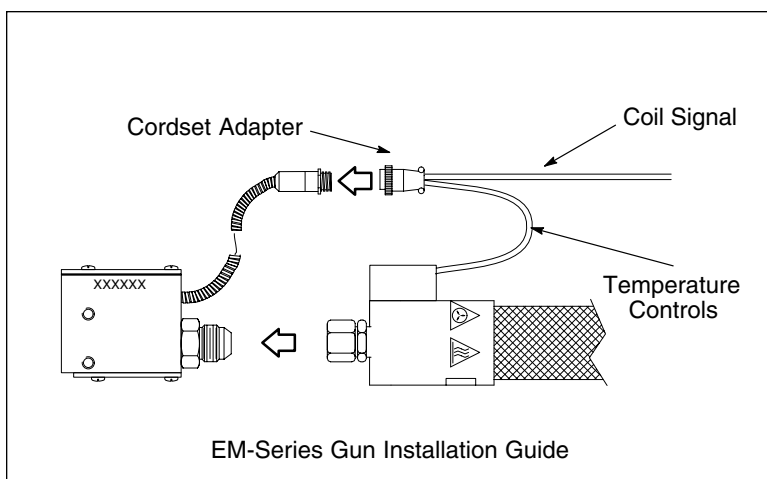
Modular EM-100 series electric guns provide rugged performance in a compact size, precise pattern control and consistent sealing results for a wide range of packaging applications.

An external driver path allows the use of AC or DC signals to energize the electric coil on standard or higher speed modules. A separate signal cable assembly provides a path for the gun actuation signal.

The EM-100 gun accurately dispenses hot melt adhesives at speeds in excess of 6000 cycles per minute. Durations as low as 4 milliseconds are possible with excellent repeatability.

EM-100 guns feature centerline spacing from 1.75 inches (44.45 mm) to 24 inches (609.60 mm). Up to eight individual modules and blanking kits mount on the manifold to yield specific adhesive pattern spacing.

The module assembly consists of a single moving armature, two static O-rings, and a coil mounted on the valve block. Modules are attached to the manifold with two screws, easing removal and replacement. The inlet to the gun manifold uses Nordson's standard O-ring port and is compatible with Nordson Saturn® inline filters.



Gun Specifications

Maximum Working Hydraulic Pressure¹	800 psi (55 bar) – spike driver 550 psi (38 bar) – AC signal
Working Viscosity²	Maximum 25,000 cps
Cycle Speed³	Up to 6000 cpm – spike driver DC Up to 600 cpm – AC signal
Electrical Connection	Quick-disconnect
Operating Temperature³	100-450°F (38-232°C)
Heating Method	Replaceable cartridge heater
Electrical Service	200 – 240 VAC, 50/60 Hz
Temperature Sensing	Replaceable RTD 120 Ohm
Nozzle Diameter Range⁴	.008 to .024 inches (.2 to .6 mm)

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)
	500 fpm (150 mpm)	± 1.50 in (38 mm)
		± 0.01 in (0.3 mm)
		0.05 in (1.3 mm)

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

Notes:

- ¹ Pressure above 500 psi requires all-electric gun spike driver signal.
- ² 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.
- ³ Maximum cycle rate depends on application, temperature and adhesive viscosity.
- ⁴ Nozzles are specified and purchased separately.



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

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