



MEG[®] II Compact Spray Gun

Compact electric spray gun for container coatings with ultra high speed response enabling fast operation and high accuracy.

The new generation of Nordson MEG compact electric gun not only provides the fast, accurate application of solventborne and waterborne can lacquers to two- and three-piece containers, but also provides ease in disassembling the front end of the gun, and employs safety features for flammable spray materials. The MEG II gun is also ideal for exterior bottom-spray applications.

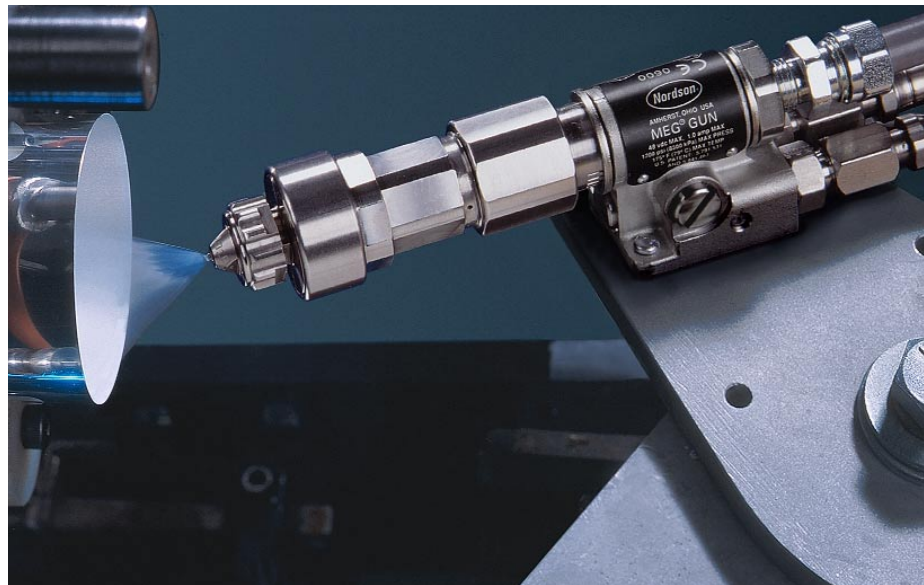
Fast Response Time, Reliable Operation

Consistent, repeatable fast open and close times provide more full-open time for each spray cycle. This allows for faster operating speeds when desired and can allow lower operating pressures for less bounceback of applied coating. Repeatability provides more consistent spray weights, reduced material waste and cleaner operation.

The MEG II Compact Spray Gun has no internal metal-to-metal friction points, contributing to a faster response time, and reducing wear and heat generation in the gun. The coil and armature assembly is specially designed to create less heat than other electric guns for reliable operation and longer wear of the parts. The overall cooler operation of the gun reduces film build-up inside the gun and minimizes valve sticking.

Ease of Maintenance and Repair

The ball-and-seat assembly is designed to minimize wear, which greatly extends the product life of the gun. When repairs are needed, the gun module can be replaced on-line for minimal downtime. The gun body has been designed with “flats” to grab with a wrench for easier maintenance, and the seat holder has an indexing ability so the seat can be rotated to promote uniform wear on the contact points of the coil face. Altogether the gun contains few moving parts to simplify rebuilding and minimize replacement-part inventories.



*Nordson MEG II Gun, 90% open, 2 msec, 2 msec, Timer set spray duration
Other Electric Guns, 90% open, 5 - 11 msec, 7 - 15 msec, Timer set spray duration*

The semi-captured nozzle o-ring provides a reliable seal. The new gun spray-end design holds the seat assembly from twisting when installing or removing a nozzle. This speeds installation and guards against damage to the gun caused by over-tightening of the nozzle nut.

The MEG II gun's nozzle adjustment feature allows the spray pattern to be rotated on its radial axis to achieve more precise placement of the pattern into the can. The nozzle can be adjusted while the gun is in operation.



The MEG II gun provides easy addition of the Nordson CleanSpray[®] Automated Nozzle-Cleaning System. Automated nozzle cleaning reduces manual nozzle cleaning to as little as once per shift, which reduces labor, increases productivity and improves coating quality.

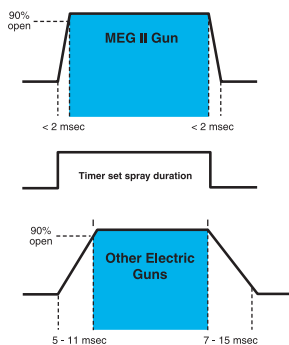
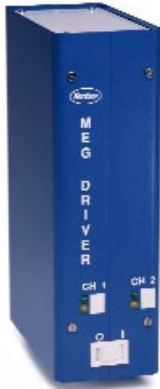
The MEG II gun is also compatible with the Nordson CanWorks[®] System. Installed with the gun or added later, this system monitors the flow of coating material through the nozzle and automatically alerts the user to changes in flow. Use of the CanWorks System option with the MEG II gun offers enhanced product performance and quality of the can coating operation to minimize rejects and optimize production quality.

MEG® II Compact Spray Gun

The MEG® Driver

Operation of the MEG II gun is controlled by a driver that provides a current-controlled signal to the gun. To speed gun response time, the MEG driver delivers a higher turn-on current pulse for three milliseconds, followed by a lower holding current for the duration of the period. This minimizes the amount of energy stored in the gun and results in a fast turn-off time. The gun drive signal is precise and consistent, and requires no adjustments.

The MEG driver operates at speeds above 3,000 cycles per minute, and is available in single and dual channel modes.



With traditional beer and beverage waterborne lacquers, the MEG II gun coupled with the driver opens in less than 2 milliseconds, which is 2.5 times faster than standard guns; and closes in less than 2 milliseconds, which is 4 times faster than the industry average.

Operating Parameters

Coating Type:

Waterbased or solvent-based
can lacquers

pH:

6.5 to 8.5

Viscosity:

15 to 40 sec. with Zahn
2 cup at 70°F (21°C)

Fluid Temperature:

175°F (79°C) maximum

Fluid Pressure:

1200 psi
(8300 kPa) maximum

Nozzle Flow Rate:

up to .20 GPM

Electrical Requirements:

48 VDC, 3 amps for 3m/second
and 1 amp holding

MEG Driver Specifications

Electrical Input:

90 to 260 VAC
Nominal 50/60 Hz

Operating Temperature:

32° to 140°F (0° to 60°C)

Operating Speed:

Above 3,000 cycles per minute
50% duty cycle @ 115 VAC

Trigger Source:

0 to 5 VDC or 0 to 24 VDC

Output Signal:

Pull-in current: 3 amps for
3 milliseconds

Holding current: 1 amp for pulse
duration

Driver/Gun Response Time:

Turn-on time: 1.2 milliseconds
Turn-off time: 1.8 milliseconds

Enclosure:

8.6 in. (D) x 5.8 in (W) x 2.5 in (H)
[(218 mm (D) x 147 mm (W) x
62.8 mm (H)]

Features and Benefits

- **Fast response** provides more open time for each spray cycle, which allows higher film weights when desired and lower operating pressures.
- **Cool operation** contributes to the fast response time and minimizes film build-up inside the gun, reducing maintenance.
- **No internal metal-to-metal friction** for less wear, longer service life and cooler operation.
- **On-line gun-module replacement** speeds maintenance.
- **Nozzle pattern adjustments can be made while the gun is spraying** for fast, accurate adjustment.

Nordson reserves the right to make design changes to products to improve their function. These changes may occur between printings.

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

United States

Amherst, Ohio
Telephone: (440) 985-4000
Facsimile: (440) 985-5110
Email: container@nordson.com
www.nordson.com/container

www.nordson.com

Canada

Markham, Ontario
Telephone: (905) 475-6730
(800) 463-3200
Facsimile: (905) 475-8821

www.nordson.ca

Europe

Erkrath, Germany
Telephone: (49) 211-9205-0
Facsimile: (49) 211-9252148

Japan

Tokyo, Japan
Telephone: (81) 3-5762-2700
Facsimile: (81) 3-5762-2701

Asia/Australia/Latin America

Amherst, Ohio
Telephone: (440) 985-4000
Facsimile: (440) 985-1096
24-hour message service:
(440) 985-4797
Email: psd_customerservice@nordson.com

