



MEG[®] Inside-Stripe Applicator

Compact electric spray gun for three-piece can inside stripe with ultra high-speed response enabling fast operation and high accuracy.

The Nordson[®] MEG[®] compact electric gun provides high-speed precise interior striping of three-piece welded containers. It is designed to coat the welded-seam of three-piece cans at rates of over 1000 cans per minute and can be used with cans as small as 52 mm.

The applicator is designed for fast, easy maintenance and repair, to minimize downtime and enhance productivity. A wide range of spray nozzles is available to meet various application needs for film thickness and stripe width.

Fast Response Time, Reliable Operation

Consistent, repeatable fast open and close times provide faster operating speeds and gives consistent, reliable application of coating.

The MEG inside-stripe (I-S) applicator has few internal 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.

Precise Coating Control

Using Nordson's flow coat style nozzles, the MEG I-S assures accurate and precise seam coverage at the required film thickness with virtually no overspray. The MEG I-S applicator allows the nozzle to be positioned in close proximity to the inside seam of small diameter cans so coating material can be applied in a continuous film rather than an atomized spray. The flow coat application provides precise control of stripe width, film thickness and weight, and also eliminates bounceback and overspray for a cleaner operation.



Using Nordson's flow coat style nozzles, the MEG I-S assures accurate and precise seam coverage at the required film thickness with virtually no overspray.

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 online for minimal downtime. The gun body has been designed 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.

The MEG I-S gun is also compatible with the Nordson CanWorks[®] iTrax[™]* System. Using a remote transducer manifold this system can be installed with the gun or added later. The CanWorks[®] iTrax system monitors the flow of coating material through the nozzle and automatically alerts the user to changes in flow caused by plugged nozzles or fluid leaking. Use of the CanWorks iTrax system option with the MEG I-S applicator offers enhanced product performance and quality of the can coating operation to minimize rejects and optimize production quality at high manufacturing speeds.



When repairs are needed, the gun module can be replaced online for minimal downtime.

*patent applied for

MEG Inside-Stripe Applicator

The MEG® Driver

Operation of the MEG I-S applicator 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.

Features and Benefits

- **Extremely fast** for use on high-speed welders.
- **Fast response time** for accuracy and consistency to minimize stripe variations.
- **Cool operation** minimizes film build-up inside the gun.
- **No internal metal-to-metal friction for less wear,** longer service life and cooler operation.
- **Compact size** for use with various-sized cans as small as 52mm diameter.
- **Precise film deposition with the applicator along with flow coat nozzle** provide a uniform stripe with superior accuracy, repeatability and control.
- **Modular design** permits easy on-line replacement to speed maintenance.
- **Adjustable nozzle holder** for online spray adjustment.
- **Circulating manifold** with 4-mm tube fittings.
- **Solvent-resistant EPR O-rings.**



With traditional three-piece cans with waterborne lacquers, the MEG I-S gun coupled with the driver opens in less than 2 milliseconds – 2.5 times faster than standard guns; it closes in less than 2 milliseconds – 4 times faster than the industry average.

Operating Parameters

Weight: 1.6 lbs (0.75 kg)

Minimum Can Size: 52 mm diameter

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: 140° F (60° C) maximum

Fluid Pressure: 500 psi (34.5 bar) maximum

Nozzle Flow Rate: 0.015-0.2 gpm (0.001-0.013 l/sec)

Electrical Requirements: 48 VDC, 3 amps for 3 msec and 1 amp holding (use MEG driver)

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: Depth: 8.6 in (218 mm)

Width: 5.8 in (147 mm)

Height: 2.5 in (62.8 mm)



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.

The Americas

Amherst, Ohio USA
Telephone: 440.985.4000

North America:

Facsimile: 440.985.5100
E-mail: container@nordson.com

South and Central America:

Facsimile: 440.985.1096
24-hour message service:
440.985.4797
E-mail: psd_customerservice@nordson.com

Europe

Erkrath, Germany
Telephone: 49.211.9205.0
Facsimile: 49.211.9252.148
E-mail: sales.liquid@de.nordson.com

Japan

Tokyo, Japan
Telephone: 81.3.5762.2700
Facsimile: 81.3.5762.2701

Asia

Singapore
Telephone: 65.6896.9630
Facsimile: 65.6896.9631
E-mail: psd_customerservice@nordson.com

Australia/New Zealand

Sydney, NSW Australia
Telephone: 61.28.825.6610
Facsimile: 61.29.838.7394
E-mail: psd_customerservice@nordson.com

