Nordson EFD
Animal Health Solutions:

Advanced Packaging and Controlled Drug Delivery Systems

Nordson
EFD

Contents

Introduction 3

Products 4

Nozzles 5

Plungers 7

Applications 8

Custom Solutions 11

Request Samples ..... Back Cover

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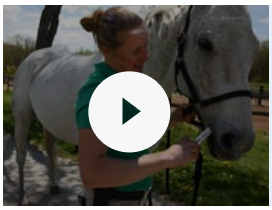
Introduction

Nordson EFD delivers reliable primary packaging and drug delivery dosing syringes for animal health products. We leverage more than 50 years of precision molding experience to deliver high-quality, leak-free, easy-to-fill disposable syringes for veterinary pharmaceuticals and nutritional supplements.

EFD animal health dosing syringes are molded from 100% FDA-approved HDPE, LDPE, and PP resins. They come in a wide range of sizes and nozzles for nearly any type of application from oral to topical to intramammary. An innovative, self-venting feature prevents air-entrapment, ensuring the dosing is reliable and accurate.

Industry-leading Dial-A-Dose® and Posi-Dose® syringes provide a customizable solution to tailor multiple doses based on treatment requirements specified by animal health pharmaceutical manufacturers. Posi-Dose features a nozzle-free design for positive confirmation that every dose is completely administered.

Dosing syringes feature a unique 'lead-in' aid that facilitates high-speed filling by simplifying the plunger insertion process.



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ANIMAL HEALTH SOLUTIONS

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Wide Range of Products

Nordson EFD offers a comprehensive selection of dosing syringes used in the treatment of horses, cows, dogs, cats, and other animals. Available in single or multi-dose options, EFD disposable animal health syringes are used to package medications, supplements, and a variety of other creams, gels, and pastes.

Choose from more than 10 sizes for small to large animals.

- **3cc to 15cc syringes for packaging companion animal medication and nutraceuticals**
- **30cc to 36cc syringes and 6cc Posi-Dose syringes for packaging equine pharmaceuticals**
- **60cc to 300cc syringes for packaging medicine and nutritional products for dairy cows and cattle**

A 300cc cartridge works with specialized dosing guns ideal for administering more volume per treatment, or for dosing large herds in one batch.

Dial-A-Dose and Posi-Dose syringes feature integrated rings that allow users to set specific dosing volumes and administer multiple controlled amounts of medication.

Nozzle Options

A wide range of nozzles are designed to meet a variety of animal health application requirements based on the size of the animal, viscosity of the fluid, and method of administering. Nozzle uses include:

- **Oral**
- **Rectal**
- **Topical**
- **Intramammary**

In addition, Nordson EFD offers a full line of nozzle caps for storing material for later use. Our caps feature a snap-locking bead that prevents leaking when storing syringes between uses.

EFD offers a cap for every type of syringe manufactured. Snap-locking, double-seal caps ensure a tight fit with the syringe nozzle, providing packaging integrity during shipping and filling.

In addition, an innovative convertible cap allows both short and long nozzles from the same syringe for treating mastitis in cows. This allows users to implement either full or partial insertion of the nozzle based on the dosing instructions.

Nozzle caps create a tight seal for storing, yet are easy for users to remove when administering a dose.

Nozzle Styles

	Nozzle Style	Syringe Sizes	Application
	Short taper (1/16" ID x 7/32" length)	15cc	Partial intramammary insertion for mastitis treatment in cows
	Thin taper (1/16" ID x 1-1/18" length)	6cc, 12cc, 30cc	Full intramammary insertion for mastitis treatement in cows
	Posi-Dose (25/64" ID)	6cc	Oral dosing of horses, typically an equine paste such as a horse dewormer
	Standard oral (3/16" ID x 1-13/32" length)	6cc, 15cc, 30cc, 32cc, 36cc, 60cc, 80cc, 100cc	Oral dosing of small to large animals
	Medium oral (9/32" ID x 1-13/32" length)	32cc, 34cc, 36cc	Oral dosing of horses
	Medium oral (1/4" ID x 1-23/64" length)	60cc, 80cc	Oral dosing of cattle
	Wide taper oral (1/4" ID x 7/8" length)	36cc	Oral dosing of horses, typically thicker pastes
	Wide oral (13/32" ID x 1-5/16" length)	60cc, 80cc, 100cc	Oral dosing of cattle, typically thicker pastes
	Luer slip (3/32" ID x 11/32" length)	3cc, 6cc	Topical, ear, or oral dosing of cats
	Round end (1/8" ID x 1-1/8" length)	6cc	Ear or rectal dosing of cats
	Round end (1/8" ID x 2-1/32" length)	15cc	Ear or rectal dosing of dogs
	Wide oral long (3/8" ID x 13-1/2" length) Wide oral short (3/8" ID x 11-3/8" length)	300cc	Oral dosing of cows, typically milk replacers for calves

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Plunger Variations

Nordson EFD offers four plunger styles. For multi-dose use, the Dial-A-Dose plunger allows users to tailor doses based on animal size, treatment schedule, or any other requirements of the material being packaged. The system's integrated ring allows users to "dial in" and administer the correct dose, accurately and reliably.

Also for multi-dose use, the Posi-Dose plunger features an advanced twist-lock ring that snaps into position to set a specific dosing volume.

Other one-piece and two-piece plungers can be used for single dose or multi-dose applications. They do not feature a dial-in ring for setting a specific dose amount. Two-piece plungers feature a seal that makes it easier to administer an accurate dose. One-piece plungers with integrally-molded seals provide a low-cost alternative.

All plungers retract to eliminate drip, drool, and product waste. Nordson EFD provides customized calibrations and stamping marks on Dial-A-Dose, Posi-Dose, and other plungers to meet specific application and dosing requirements.

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Applications

Bovine

Dosing cattle with nutraceuticals such as probiotics or dosing calves with milk replacers.

Recommended Solution

- ***Wide oral short cartridge (300cc)***
- ***Wide oral long cartridge (300cc)***
- ***Dosing gun***

Intramammary treatment of mastitis in cows.

Recommended Solution

- ***Thin taper syringe (6cc, 12cc, 15cc, or 30cc)***
- ***Thin taper syringe with convertible cap for full and partial insertion capability***
- ***Short taper syringe (15cc)***
- ***One-piece plunger***

Dosing cattle with dewormers, or other medication that requires accurate, repeatable treatment.

Recommended Solution

- ***Standard oral syringe (60cc, 80cc, 100cc)***
- ***Medium oral syringe (60cc, 80cc)***
- ***Wide oral syringe (60cc, 80cc, or 100cc)***
- ***Dial-A-Dose plunger***

Dosing cattle with nutraceuticals, such as nutritional supplements.

Recommended Solution

- ***Standard oral syringe (60cc, 80cc, 100cc)***
- ***Medium oral syringe (60cc, 80cc)***
- ***Wide oral syringe (60cc, 80cc, or 100cc)***
- ***Two-piece plunger***

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Applications

Equine

Dosing horses with dewormers and other equine pharmaceuticals.

Recommended Solution

- ***Posi-Dose syringe and plunger (6cc)***

  Its nozzle-free design ensures positive confirmation that each dose is completely dispensed.

Dosing horses with nutraceuticals, such as probiotics.

Recommended Solution

- ***Standard oral syringe (32cc, 36cc)***
- ***Medium oral syringe (32cc, 34cc, 36cc)***
- ***Wide taper oral syringe (36cc)***
- ***Two-piece plunger***

Dosing horses with equine ulcer medication or with NSAIDs for pain management.

Recommended Solution

- ***Posi-Dose syringe and plunger (6cc)***
- ***Standard oral syringe (32cc, 36cc)***
- ***Medium oral syringe (32cc, 34cc, 36cc)***
- ***Wide taper oral syringe (36cc)***
- ***Dial-A-Dose plunger***

Applications

Companion Animals

Dosing dogs with pharmaceutical treatments.

Recommended Solution

- ***Standard oral syringe (15cc)***
- ***Dial-A-Dose plunger***

Dosing dogs with nutraceuticals.

Recommended Solution

- ***Standard oral syringe (15cc)***
- ***Two-piece plunger***

Dosing cats with medicated ear drops for ear infections.

Recommended Solution

- ***Luer slip syringe (3cc or 6cc)***
- ***One-piece plunger***

Dosing cats with medicated topical drops for flea and tick protection.

Recommended Solution

- ***Luer slip syringe (3cc or 6cc)***
- ***One-piece plunger***

Dosing cats with hair ball treatments.

Recommended Solution

- ***Thin taper syringe (6cc)***
- ***One-piece plunger***

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Custom Solutions

Nordson EFD offers a wide range of customization options for disposable animal health dosing syringes. These services include custom colors and product design and engineering services to assist customers in the development of specialty dosing syringes.

Nordson EFD provides custom calibrations and stamping marks on Dial-A-Dose, Posi-Dose,and other plunger styles to meet specific application and dosing requirements. Our custom packaging is created through modification of existing tooling for faster, more cost-effective product development.

Customers can request custom in-mold labeling or standard labeling for their EFD dosing syringes. We also offer custom syringe sizes, nozzles, and plungers.

Why Nordson EFD?

Dedicated to providing the highest quality products and customer support since 1963, Nordson EFD offers in-depth product and application knowledge with every precision animal health product packaging solution we develop.

Our disposable dosing syringes for veterinary pharmaceuticals and nutritional supplements are manufactured to strict tolerances and exposed to rigorous quality control standards and processes to deliver the most accurate, repeatable filling and dosing functionality possible.

With offices and warehouses in more than 40 countries, our global team is able to provide the customer support and inventory levels required to create successful partnerships with animal health product manufacturers worldwide.

Request Samples

If you'd like to try EFD disposable animal health dosing syringes, please request samples. Simply go to **www.nordsonefd.com/AHsamples.**

Request More Information

Nordson EFD's worldwide network of experienced animal health application specialists are available to discuss your needs and recommend a solution that meets your drug packaging and delivery requirements and budget.

Call or email us for a consultation.

800-556-3484

info@nordsonefd.com

Connect with us

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