

FMD / Poultry Vaccinator

Description

The **FMD or Poultry Vaccinator** is a precision instrument used for administering vaccines to livestock and poultry, particularly during large-scale immunization drives. It is specifically designed for efficiency, repeatable dosing, and ease of use in mass vaccination of animals against Foot-and-Mouth Disease (FMD), Newcastle Disease, and other infectious conditions.

Specifications

- **Material:** High-grade stainless steel / medical-grade polymer
- **Barrel Capacity:** 0.1 ml to 10 ml (adjustable, depending on model)
- **Dose Adjustment:** Calibrated mechanism for accurate dose control
- **Nozzle Types:** Luer lock / slip tip / needle lock
- **Operation Type:** Manual or automatic (spring-loaded or semi-auto)

Sizes

- **Barrel Volumes:** 0.5 ml, 1 ml, 2 ml, 5 ml, 10 ml
- Available in various ergonomic sizes to fit hand grip preferences

Shapes

- Pistol-grip style (commonly used for fieldwork)
- Pen-style (lighter variants, mostly for poultry)
- Straight barrel (compact use)

Types

- Fixed Dose Vaccinator/ Poultry Droplet Vaccinators (for ocular or nasal vaccines)
- Adjustable Dose Vaccinator
- Automatic (self-refilling) Vaccinator
- Reusable / Disposable Vaccinators

Material

- Stainless steel internal parts (for longevity)
- Non-toxic, autoclavable plastic body (for lightweight handling)
- Silicone or rubber seals (for leak-proof function)

Category

- Veterinary Vaccination Equipment
- Livestock and Poultry Healthcare Tools
- Field Medical Devices

Product Form

- Single-unit handheld instrument
- Often provided with spare parts: washers, plungers, seals
- Optional accessories: tubing, vaccine bottles, needles

Usage

Used in livestock and poultry vaccination programs for:

- Foot-and-Mouth Disease (FMD)
- PPR (Peste des Petits Ruminants)
- Newcastle Disease
- IBD, Marek's Disease, Avian Influenza, and more

Advantages

- Rapid and precise vaccine delivery
- Reduces vaccine wastage
- Adjustable dosing for different species and ages
- Lightweight and ergonomic for long-duration field use
- Can be sterilized and reused

Disadvantages

- Requires trained personnel to operate correctly
- Risk of cross-contamination if not sterilized properly
- Manual models may cause fatigue during large-scale operations
- Fragile plastic models may wear out faster than metal

Precautions

- Always sterilize before and after use
- Use species-appropriate dose calibration
- Replace worn-out seals and plungers regularly
- Store in clean, dry area when not in use
- Avoid mixing vaccine types in the same device

HS / HSN Code

- **HS Code:** 9018.39
- **HSN Code:** 90183990
(Covers veterinary syringes, vaccinators, and similar devices)

Handling Instructions

- Fill syringe slowly to avoid air bubbles
- Confirm dose setting before each use
- Hold firmly at injection angle recommended per species
- Rinse with distilled water post-use and sterilize properly
- Store in protective case to avoid damage to nozzle

Sterilization Details

- Can be autoclaved at 121°C for 15–20 minutes (if fully stainless or autoclavable plastic)
- Chemical sterilization possible using glutaraldehyde or chlorhexidine solutions

Veterinary Application

- **Livestock (Cattle, Buffalo, Sheep, Goats):** Used for mass vaccination against FMD, PPR, Haemorrhagic Septicaemias, etc.
- **Poultry (Broilers, Layers, Breeders):** Used for wing web, ocular, nasal, or intramuscular vaccine delivery against ND, IBD, and AI
- Essential in government and private sector animal health programs
- Widely used in farm management, hatcheries, and animal health camps

Human Application

- **Note:** Not used in human medicine.
- Designed exclusively for veterinary and poultry use due to size, dosing mechanism, and design configuration.

Frequently Asked Questions (FAQs)

Q1. What diseases can be prevented using this vaccinator?

Answer: It is used for FMD, PPR, Newcastle Disease, Avian Influenza, and other livestock/poultry diseases.

Q2. Is the vaccinator reusable?

Answer: Yes, most models are reusable after proper cleaning and sterilization.

Q3. Can I adjust the dose?

Answer: Yes, many vaccinators come with adjustable dose settings between 0.1 ml to 10 ml.

Q4. Is it suitable for both livestock and poultry?

Answer: Yes, different models exist for both livestock (larger dose) and poultry (smaller, precise dose).

Q5. Can it be sterilized?

Answer: Absolutely. Most models are autoclavable or chemically sterilizable.