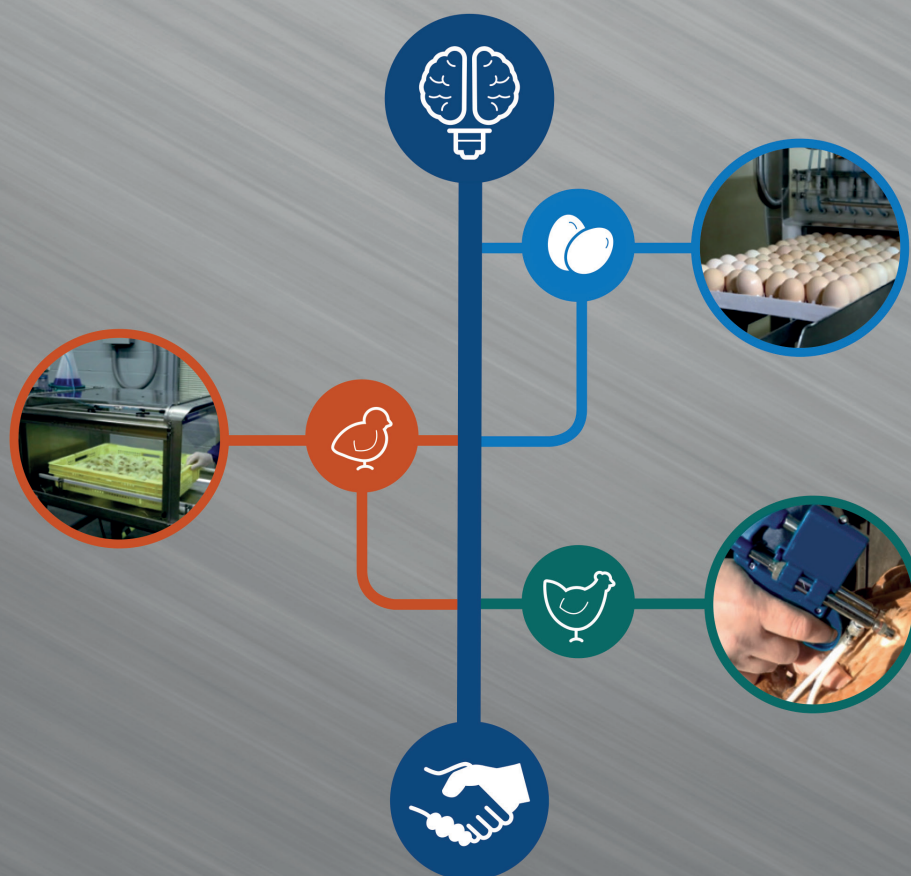


# EQUIPMENT PORTFOLIO

## VACCINATION TECHNOLOGIES & SERVICES

35+ YEARS OF EXPERIENCE IN VACCINATION EQUIPMENT



Boehringer Ingelheim VTS, we are committed to providing you with:

- Excellence in service offerings
- The most advanced technology in the industry
- Complete equipment portfolio for hatchery and field
- A network of dedicated technicians

### Ovo-Jector

The Ovo-Jector is used for *in ovo* vaccination to stimulate early immunity and reduce stress on the chick.

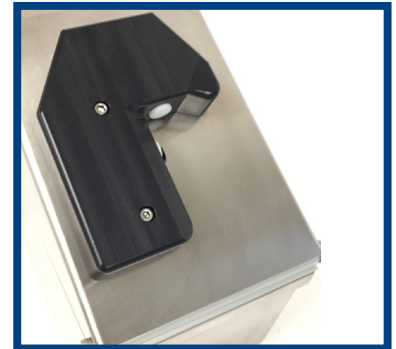
- Up to 35,000 eggs per hour
- Selective vaccination
- 0.05 ml dose
- User-friendly touch screen
- Compact design with automated transfer
- Easy operation



### AccuVac Models

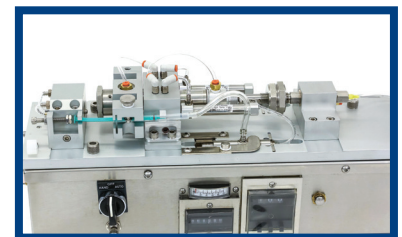
The three AccuVac subcutaneous vaccinator models are designed to make vaccination of day of age chicks safe, easy, and effective. They can deliver water or oil based vaccines.

- Improved Twin Touch Plate for accurate injection and operator safety.
- Up to 3,000 birds per hour
- Stainless steel design
- All pneumatic
- A check valve delivery system



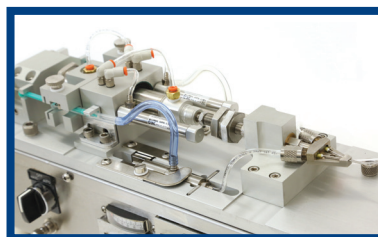
### AccuVac

- Delivers one vaccine through one needle
- Delivers up to 0.20 ml dose



### AccuVac TwinShot

- Delivers two vaccines through two separate needles
- Delivers up to 0.20 ml dose for liquid and 0.20 ml for oil



### AccuVac 1Shot

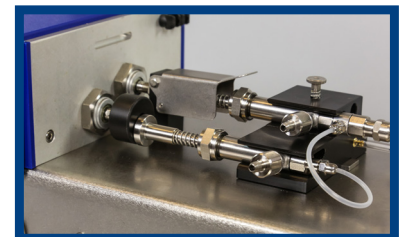
- Delivers two vaccines simultaneously through one needle
- Disposable syringes and plastic “Y” included
- Reusable stainless steel syringes and stainless steel “Y” check valve system (RSO) is available upon request. RSO offers:
  - Excellent injection quality
  - Delivers a consistent dose (0.20 ml dose for liquid and 0.20 ml for oil)
  - Simple design makes clean up fast and easy



### Zootec Single and Double II

The Zootec vaccinator is for subcutaneous administration of water or oil based vaccines in chicks at day one of age.

- One or two vaccines through one needle
- Simple design
- Quiet operation
- Delivers 0.1 - 0.5 ml depending on syringe; other volumes available upon request
- Up to 3,000 chicks per hour
- All pneumatic
- Stainless steel lid and body
- Improved Twin Touch Plate for accurate injection

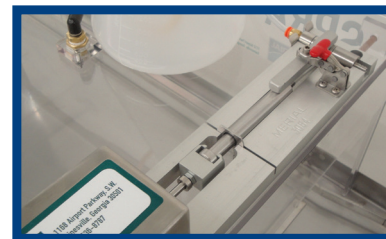
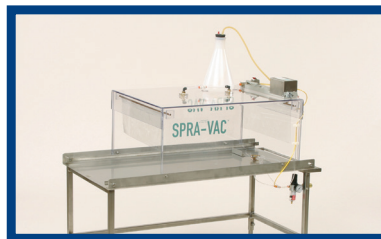


## HATCHERY

### Spra-Vac

The Spra-Vac is a coarse spray applicator designed for mass vaccination of day old chicks in the hatchery.

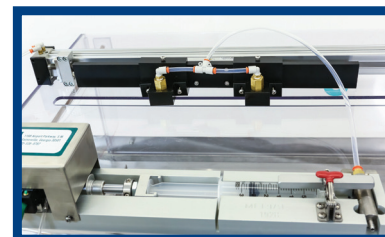
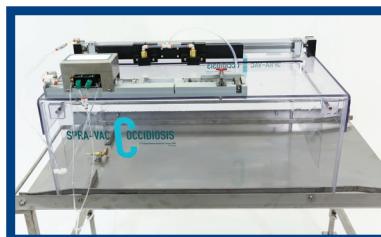
- Up to 40,000 to 60,000 chicks per hour
- Available in 14" (.36 m) or 18" (.46 m) hood, 2 or 4 nozzles
- Available in stand-alone Table, Freestanding and Hood only models
- Fixed or multiple dose delivery systems
- Stainless steel syringe or plastic disposable syringe are available
- Simple operation and minimal maintenance
- All pneumatic



### Spra-Vac C

The Spra-Vac C allows the operator to mass vaccinate day old chicks against Coccidiosis disease in the hatchery.

- Rodless cylinder design
- Coarse spray
- Two fan nozzles
- Stand-alone table
- All pneumatic





## HATCHERY

### Spra-Vac II

The Spra-Vac II is a new generation stand-alone table sprayer designed to make the mass vaccination of day old chicks in the hatchery easy and simple.

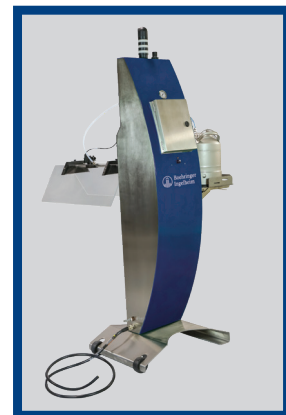
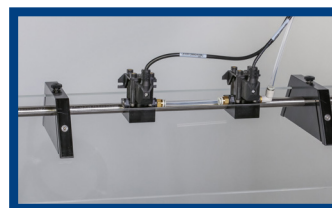
- Volumetric pump and improved check valve
- Adjustable volume range
- All pneumatic
- Up to 40,000 chicks per hour
- Coarse droplet size
- Auto cleaning cycle
- Adjustable side rails to fit all types of chick box sizes



### Spra-Vac Line

The Spra-Vac Line is a sprayer designed to mass vaccinate day old chicks in the hatchery that are processed when using a conveyor. The modern, sleek design sets it apart from other hatchery sprayers in the industry.

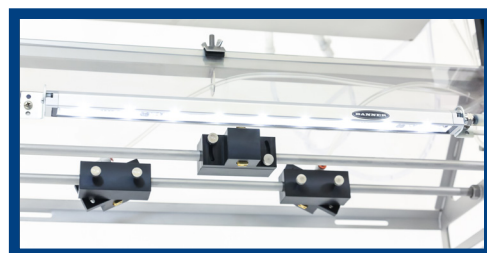
- Automatic Spray Control Technology
- Pulse Width Modulation (PWM)
- Complete spray coverage
- Up to 4 nozzles
- User-friendly touch screen



### HATCHPAK® COCCI Sprayer

The HATCHPAK® COCCI Sprayer is designed to vaccinate any standard size hatchery chick box of 100 one-day-old chicks at one time. It can operate on an automated conveyor system or stand-alone conveyor in the hatchery.

- Coarse spray
- Pneumatic technology
- Consistent and accurate spray pattern
- Built-in light bar
- Separate spray nozzle systems for Cocco and respiratory vaccines



### Field Spra-Vac

The Field Spra-Vac is a backpack sprayer designed to make the administration of live vaccines to day old chicks easier and more efficient in small hatcheries or on the farm.

- Up to 75,000 birds an hour
- Pre-set dose or continuous spray option
- Electric pump provides thumb tip control of spray volume
- Reduces stress on the hand or arm of the operator
- Battery powered



### UlvaVac

The UlvaVac is a hand-held sprayer used to mass vaccinate birds housed on the floor and in cages. Uses a fan to disperse the vaccine into the air.

- Lightweight design
- Consistent droplet range of spray particles
- Uniform vaccination
- Battery powered
- Up to 20 minutes for one house depending on the nozzle



### SoloVac III

The SoloVac III is a backpack sprayer designed to mass vaccinate birds housed on the floor.

- Single operator
- Coarse spray
- Quick and easy vaccination (+/- 6 minutes) for one house
- Capable of spraying multiple houses with one battery charge
- 20 gallon/5 liter tank
- Strong pump and motor delivery system



### PoleVac

The PoleVac is a modified version of the UlvaVac. It was developed for farms where chickens are housed on raised slats and are difficult to vaccinate.

- Heavy-duty extension pole
- Unique propeller head and atomizer disc
- Uniform vaccination
- Lightweight design
- Battery powered



## SprayCart Dual

The SprayCart Dual is designed to make the vaccination of caged birds (layers and broilers) accurate and easy.

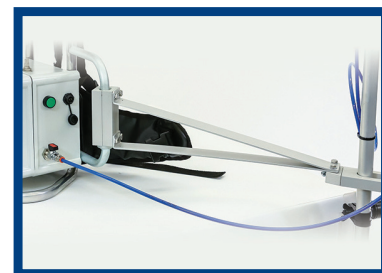
- Up to 100,000 birds an hour
- 12 gallon/50 liter tank
- Two folding vertical spray mast
- Total of 12 adjustable nozzles (6 per mast)
- Sturdy wheels for easy steering
- Battery powered
- Improved delivery system
- Specific nozzle for broilers housed in cages



## Layer SprayPac

The Layer SprayPac is a backpack sprayer that is equipped with a hand-held spray mast. This unique design allows the operator more freedom when vaccinating layers.

- Up to 10,000 birds
- Up to 4 cage tiers can be vaccinated in a single pass
- 2.5 gallon/10 liter tank
- Equipped with an arm rest to help reduce stress on hand and arm of the operator
- Battery powered





### EZ Ject Pneumatic Syringe

The EZ Ject Pneumatic Syringe is a field syringe that allows for the injection of inactivated vaccines by intramuscular route of injection.

- Delivers two vaccines through two separate needles
- Delivers two vaccines through one needle using a bridge
- Fixed dose
- All dose volumes up to 6 ml are available
- Lightweight and ergonomic



### Pullet Syringe

The Pullet Syringe is a disposable, fixed-dose syringe assembly designed for use in the field or in the hatchery.

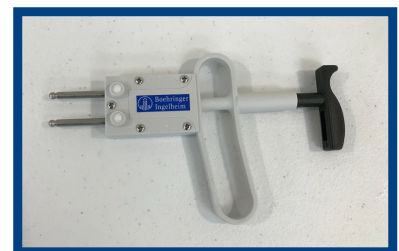
- A washable, reusable handle
- Pre-set dose handles: 0.2 ml, 0.25 ml, 0.3 ml, 0.5 ml and 1.0 ml
- Simple cleanup procedures
- Uses a disposable syringe pack



### Stereo Pullet Syringe

The specially designed handle of the Stereo Pullet Syringe allows simultaneous injection of different vaccines or dosages.

- The handle is available in any combination of 0.3 ml and 0.5 ml dosage settings
- Easy cleanup procedures
- Uses a disposable syringe pack



## Socorex Single and Double Syringes

The Socorex is a variable dosage, reusable syringe designed for administering both inactivated and live injectable vaccines.

- Quick dose adjustable
- Delivers a consistent dose
- Easy cleanup procedures



## Pox Syringe

The double needle delivery method on the Pox Syringe provides a safe, easy and effective way to deliver pox vaccines.

- Delivers a consistent dose
- The 5 ml vaccine barrel helps to eliminate vaccine waste
- A clean way to delivery to the wing web



## Single Syringe

The Single Syringe provides a perfect application for inactivated vaccines in the field.

- Interchangeable piston allows for easy dose adjustment
- Delivers an accurate dose
- Easy clean up
- Nickel-plated syringe



## Accessories

Boehringer Ingelheim offers a wide range of accessories which complements its extensive line of vaccination equipment. Available accessories include:

**thermal bath for frozen vaccines**

**dye for water, spray and injection**

**alcohol swabs**

**needles in a variety of gauges and lengths**

**disposable syringes for mixing vaccines**

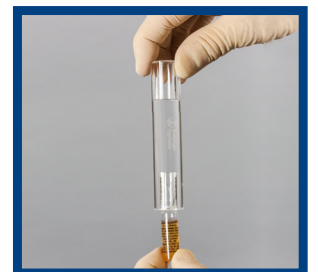
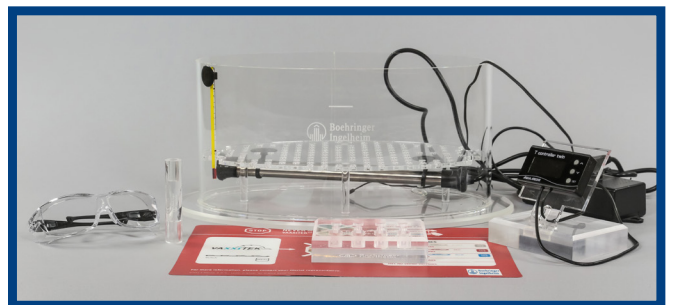
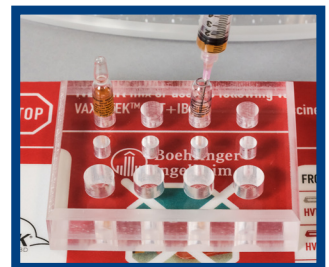
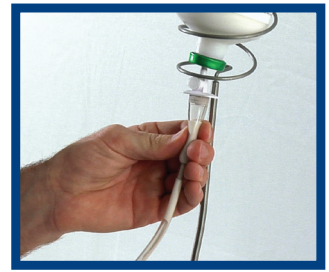
**drip chambers**

**latex tubing**

**ampule holders**

**silicone tubing**

**ampule breakers**



All of the equipment shown has been engineered and validated by Boehringer Ingelheim, or in partnership with Boehringer Ingelheim, and therefore is suitable for the exclusive use of Boehringer Ingelheim avian vaccines.

Find out more about the value offerings and the complete portfolio of equipment provided by Boehringer Ingelheim Vaccination Technologies and Services by contacting your Boehringer Ingelheim representative today.

