



GENERAL BENEFITS OF IN-OVO VACCINATION

IN-OVO VACCINATION REPRESENTS MAJOR BENEFITS FOR DAY OLD CHICKS PRODUCTION:

- Safe, constant and accurate method of vaccine application
- Significant labour costs reduction vs sub-cutaneous or field vaccination
- No Post -Vaccination reaction
- Improvement of the Chick Quality of your flocks
- Early access to food and water. Day-old-chicks are not stressed after hatch
- Better development of the immune system at hatch.



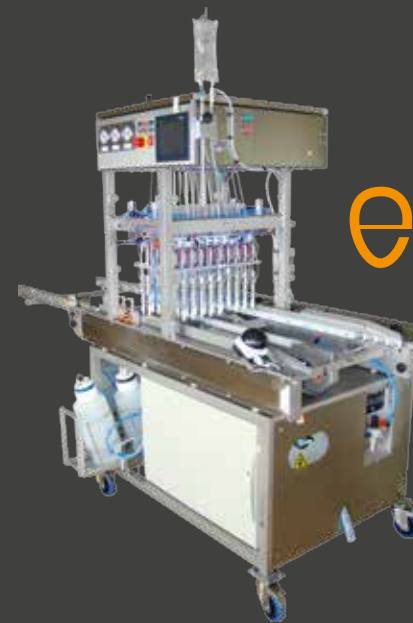
TECHNICAL INFORMATION

EGGINJECT IS THE PERFECT TOOL FOR MODERN HATCHERY VACCINATION.

- Speed up to 60.000 eggs/hour
- Adaptable to all types of Incubation trays
- Reliable and solid design for heavy duty
- Easy to use: simple and operator's friendly
- Stand Alone or fully integrated in the hatchery automation line
- No vaccine waste while priming

COMPACT EGGINJECT

Also available for small and medium size hatcheries. For more information visit the website: www.egginject.com



egginject[®]
COMPACT

EGGINJECT IS SUPPORTED BY CEVA'S UNIQUE IN-OVO C.H.I.C.K. PROGRAM

LIST OF MAIN SERVICES:

- Hatchability assessment
- Embryodiagnosis
- Blue Dye Tests
- Microbiological monitoring
- Operator trainings



DATA BASE / REPORTING PHASE

Worldwide data base to benchmark the equipment performance in every hatchery.

Contact your local Ceva representative for more information.

WORLDWIDE PRESENCE

"Worldwide presence, with local Service teams in all the countries"



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egginject[®]
IN OVO SYSTEM

DESIGNED TO BE SAFE

Engineered by Ecot:ID

Egginject[®]

For modern hatcheries, the Egginject[®] full line allows safe In-Ovo Vaccination thanks to its **Dual Pressure Injection System**.

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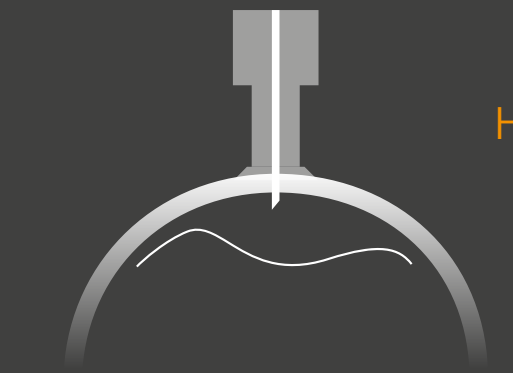
DESIGNED TO BE SAFE



DUAL PRESSURE INJECTION SYSTEM

The Egginject® Dual Pressure Injection System is a patented technology allowing automatic and individual adaptation of the injection depth to each single embryo, regardless of egg size and flock age.

HOW IT WORKS?

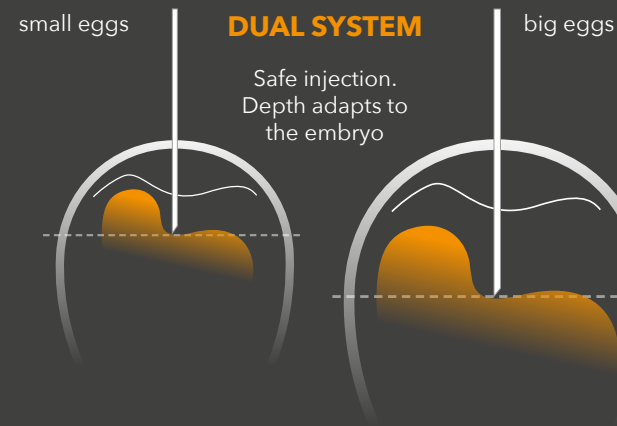


1st Step:
High pressure is used to perforate the egg shell. As the pressure is applied only on a very small area of contact.



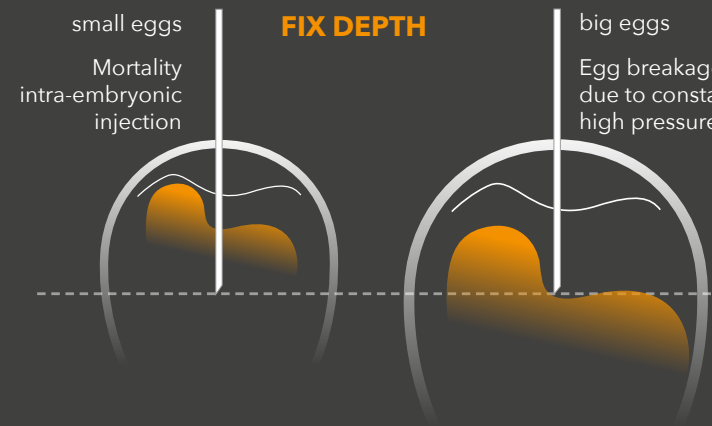
2nd Step:
Once the needle is inside the egg, the system changes to low pressure. Each needle automatically adapts the injection depth according to the size and position of the embryo.

ADAPTABLE DEPTH VS FIX DEPTH



DUAL SYSTEM

Safe injection. Depth adapts to the embryo



FIX DEPTH

Mortality intra-embryonic injection

Egg breakage due to constant high pressure

WHAT ARE THE BENEFITS?

EGG BREAKAGE IS NEGLIBLE

As the High Pressure (1st Step) is applied only on a very small area of contact, the incidence of egg shell breakage practically disappears.

HATCHABILITY IMPACT IS MINIMIZED

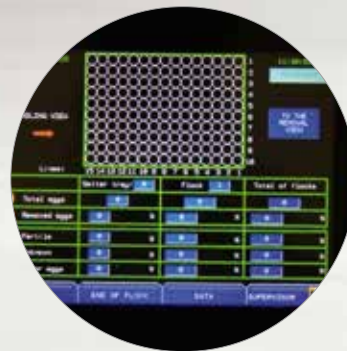
The individual adaptation of the injection depth to each single egg depending of its embryo size and position, minimizes the embryo injuries caused by excessive intra-embryo perforation.

ELECTRONIC VACCINE MANAGEMENT SYSTEM

- Vaccine is fully monitored during the vaccination process by the Electronic Vaccine Management System.

This system presents the following advantages:

- Vaccine waste due to priming is almost none.
- Vaccine flow is smooth and free of high pressure, therefore, vaccine cells integrity is not damaged.



DOUBLE DISINFECTION SYSTEM

- Eggs are disinfected before the injection to maximize the biosecurity control and minimize the risk of cross contamination.
- Each Injector is disinfected after each injection to complete the double disinfection system.



LASER CANDLING

- Outstanding accuracy at very high speed. The patented Laser technology performs superiorly.
- Unfertile eggs and early mortality eggs can be separated and handled differently according to the customer needs.
- No interference by the transfer room light on the readings

EGGINJECT® ALLOWS SAFE VACCINATION IN ALL TYPE OF FLOCKS, INCLUDING SMALL EGGS AND LATE EMBRYONIC DEVELOPMENT. THE NEW GENERATION OF IN-OVO TECHNOLOGY IS READY.