

CHEGGY

Automated sex determination
in the hatching egg of layer chicks





In-ovo sex determination of up to 20,000 eggs per hour Is easy. With CHEGGY.

Every year and all over the world millions of day-old male chicks, deemed the 'brothers' of laying hens, are culled because they can neither lay eggs nor do they have as much meat on them as broilers do.

European countries were the first to decide on ending the practice of culling these day-old male chicks. This topic of discussion has arisen and is moving forward in other countries as well. The animal welfare friendly alternative is in-ovo sex determination with CHEGGY. This fully automated machine uses hyperspectral imaging technology that identifies the gender in the brown layer lines by embryonic plumage colours.

Technology that is currently used for sex determination does so in the second-third of the incubation period. CHEGGY is able to safely check up to 20,000 eggs per hour. Thanks to its non-invasive process, there is no risk of contamination and no risk of injuries to the embryo.



CHEGGY

Advantages



CHEGGY enables hatcheries to determine the sex of layer chicks in an animal welfare friendly and cost-effective way. The fully automatic system has an impressively high throughput rate and maximizes egg safety.

+ High accuracy of in-ovo sex determination

+ Fully automated, high-speed measurement for up to 20,000 eggs per hour

+ Currently the most cost-effective process on the market

+ No risk of contamination or injuries due to the non-invasive process

+ Nearly no hatch losses

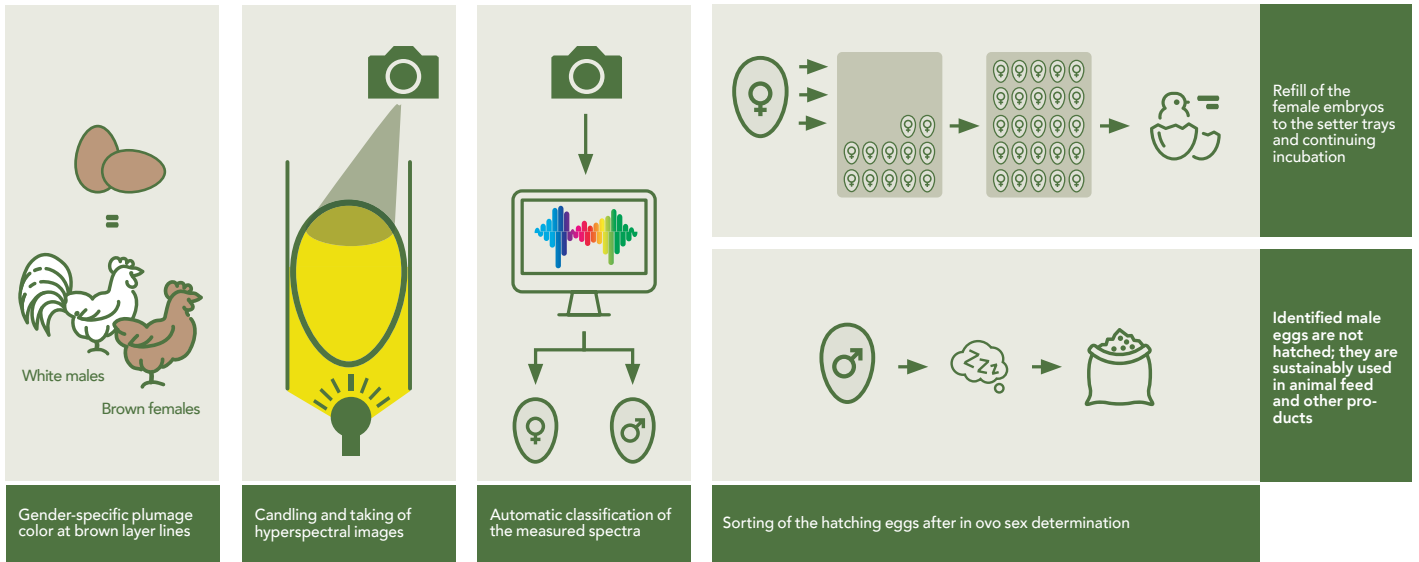
+ Environmentally friendly: no expensive consumables required

+ Compact and space-saving design



Contribution to climate protection

CHEGGY not only offers the advantage of making an important contribution to animal welfare, but is also sustainable. One factor contributing to this is the accuracy of the machine: With a high level of accuracy of hatched chicks are female. In addition, in-ovo sexing saves resources. Furthermore, the process does not require any chemicals.



Let there be light: The non-invasive hyper- spectral measurement technology.

CHEGGY is not only the first technical solution suitable for the high volumes of a modern hatchery, but also currently the most cost-efficient alternative to culling male day-old chicks.

Due to gender-specific plumage colours in brown layer lines, the sex can already be determined in the embryo based on its first feathers. This is how it works: inside the measuring chamber, eggs are illuminated from below and a spectral image is taken from above. The procedure is non-invasive, keeping the eggshell intact. Based on differences in the measured light spectra, an algorithm classifies the gender. In addition to sex determination, unfertilized eggs are also identified and sorted out at the same time.

The hyperspectral measurement technology does not require expensive consumables. This is another reason why it is the cheapest process on the market and, above all, more environmentally friendly.

Specialised Breeders Australia. Exceptional Quality. Reliable Service

Specialised Breeders Australia is the largest supplier of day-old chicks and point of lay pullets to the Australian egg industry.

SBA supplies the world's leading layer breeds, Hy-Line and Lohmann to the Australian and various Asia Pacific egg producers.

With a commitment to innovation, animal welfare, and operational excellence, SBA partners with suppliers and producers nationwide to deliver reliable, sustainable, and solutions to support the evolving needs of the Australian egg industry.



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Agri Advanced Technologies: From research to practice.

Agri Advanced Technologies GmbH (AAT), based in Visbek, Germany, specializes in the development of application-specific technologies for poultry breeding and management.

These include in-ovo sexing machines, sorting and vaccination systems for broiler production, and egg disinfection solutions.

As part of a global network, AAT works closely with stakeholders across the value chain and in research. The company regularly collaborates with external institutions such as universities, research organizations, agricultural associations, producers, and trading companies.

AAT is a pioneer and market leader in in-ovo sex determination in Europe, with applications in Germany, France, Italy, the Netherlands and Spain. AAT operates three high-capacity Cheggy machines in the USA and is also present since 2025 in Brazil. With the new installation in Australia, AAT is now able to meet customer demand in Asia-Pacific as well.



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