

Number 6

FOCUS on New Installations

Shining the spotlight on expansions worldwide

EMKA Hatchery Equipment is growing fast and building hatcheries around the world. Lately they have been active in countries such as Belarus, Bangladesh and Montenegro. Most of the time, their clients expect to implement the Dry Hatch and adoption of their flagship product is now well underway. Here are some of the projects where customers have trusted EMKA.

FRANCE: Novogen

France's Novogen layers, recently acquired by the EW Group that supplies well-known brands such as Aviagen Ross and Turkeys, Lohmann, H&N, Hubbard and many more, has trusted EMKA Hatchery Equipment for their GGP and pedigree hatchery.

Convinced that the 'Dry Hatch' technology is the best hatching system on the market today, Novogen chose EMKA.

The hatchery was a brownfield conversion of an old turkey hatchery in Saint-Hervé next to Uzel, France. Now fully converted it can boast a state-of-the-art installation running VH-range and Tegg-range machines all equipped with the Dry Hatch.

There was a particular focus on the equipment and its utilisation, it had to be the latest technology. The objective was multiple: ensuring a working comfort for the Novogen staff, guaranteeing a high level of biosecurity, ensuring high animal welfare and the best start for the day-old chicks.

Novogen demonstrates its commitment to the industry by resting on five pillars: taking care of clients and partners, their teams, staff, animals and the planet.



CANADA: Couvoir Scott

In the heart of French speaking Canadian Québec, in the small rural town of Scott, the Couvoir Scott Hatchery has replaced old and worn machines with the latest EMKA Hatchery Equipment Tegg-range.



The installation was conducted in record time while adhering to the strictest Covid-19 rules. The existing incubators needed to be torn down, the floor needed to be resurfaced and the new machines installed and connected, all while keeping the hatchery up and running.

The perfect result was the work of the whole team, locals and visitors. The hatchers now run the Teggologic27 without the use of chillers. A dry cooler, consuming very little energy, replaces any expensive energy and power-hungry chiller. As long as the outside temperature is below 24°C no chiller is required. This is a considerable saving compared to traditional set-ups. The first results demonstrate the quality and hatchability of the EMKA Incubators. Since the installation, a second order of an ongoing multi-stage replacement plan has been placed and is in full production.

ETHIOPIA: Alema Farms

Last year was a great year for EMKA, so they decided to give back where they could. EMKA Hatchery Equipment has been able to help develop poultry in Ethiopia together with Flanders Investment and Trade



(FIT). The FIT is, among others, a Flemish platform for subsidising investment goods for developing countries. The new Ethiopian Alema Farms hatchery fell under that category. With the human tragedy unfolding in Ethiopia, EMKA Hatchery Equipment has focused on financing the local poultry sector by subsidising 50% of the hatchery project. Mr Alemayehu, the general manager of Alema Farms, reached out to EMKA for the project and they were happy to help. The delivered project is the first stage in the poultry expansion of Alema Farm's hatchery. EMKA supplied VH-range setters and hatchers to incubate the first stage of 6,000,000 hatching eggs per year.

ISRAEL: NR SOOS Technology

For a few years now, EMKA Hatchery Equipment and NR SOOS Technology, an Israeli Agri technology start-up, have been working closely together manufacturing sex-determination (not sex detection) incubators. The incubators aim to produce only female layer chicks.



Every year, commercial hatcheries around the world produce 15 billion chicks, 7.5 billion are females that can lay eggs, and 7.5 billion are males that have no commercial use and are being culled after they hatch or they are aborted with sex detection machines way into the incubation process.

SOOS developed an incubation system that affects the sex development process in poultry embryos and turns genetic males into functional female chicks. The system operates an incubation protocol that controls a combination of temperature, CO₂, humidity and sound vibrations.

Pilot hatcheries have now been installed by EMKA in Israel, Italy, Belgium and the USA.

MALI: Sosaf

Sosaf, led by Mohamed Sanogo, has chosen EMKA Incubators to build his new greenfield hatchery in Bamako, Mali. EMKA Hatchery Equipment is quite active in French-speaking Africa where they already have a considerable base installed.



The new hatchery, with SC-range 57600 egg incubators and their complementary hatchers, of course has the Dry Hatch and incubation and full climate control.

The project started with a six million egg per year incubation and is already expanding to 12 million in 2022.

At present, despite the political turmoil, the demand in the Mali market is strong for poultry.

The days of customers choosing cheap and old-technology machines is gone and customers are now choosing high quality/high performance products. CO₂-steering, Dry Incubation and Dry Hatch, egg weight loss management and hatchery management tools, such as the Link 2.0 are of particular interest. ■

www.emka-incubators.com



Number 7

FOCUS on New Installations

Egg handling and transportation

It goes without saying that for any new installation eggs in general, and hatching eggs in particular, must be handled and transported with great care. After all, damage to the egg directly results in economic loss. For this reason, GI OVO has developed a number of systems for the transport of eggs. All systems use plastic pallets, dividers and trays.

The pallets are, of course, exactly matched to the lining of the stacks of trays that are placed on them. The dividers are intended to be placed between the stacks of trays, so that the whole can be picked up and unpacked by robots.

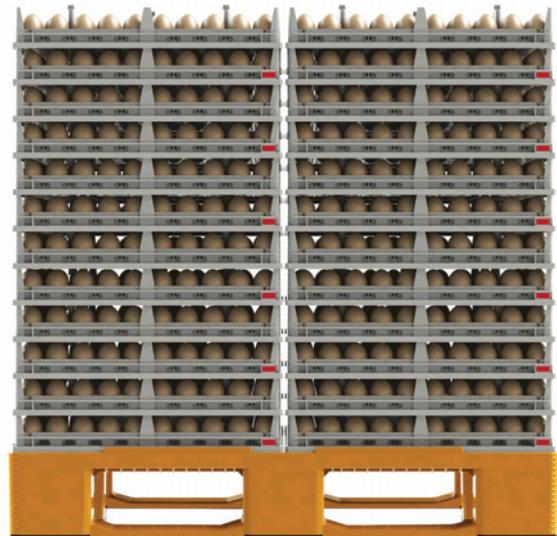
The most well-known system is the EggsCargoSystem Traditional. This system uses the Jumbo 2.0 tray on which 30 eggs can be placed. The Jumbo 2.0 provides space and protection for eggs up to 90g each.

With this system, 10,800 can be packed on one pallet of 120 x 90cm. In addition to the traditional system,

GI OVO also supplies the EggsCargoSystem XL system.

This system is intended for the transport of duck and turkey eggs. This system also uses the 120 x 90cm pallet and a special divider. The trays of this system can carry and protect 20 duck or turkey eggs.

The trays are constructed in such a way that the large eggs sit perfectly in the pockets and are protected during packing and during transport. In addition to manually, this system can also be loaded and unloaded with robots.



Unique system where everything is stackable

Finally, GI OVO supplies the HatchCargoSystem. This system also uses a plastic pallet 103 x 74cm with two rows of so-called setter trays, intended for the transport of 150 eggs per setter tray. The unique thing about this system is that everything is stackable, which makes the use of steel trolleys superfluous.

This means on the one hand that more eggs can be loaded onto a truck, up to 25% more, and that the return material stretch can also be

reduced because the setter trays are nestable. Per pallet 7,500 eggs can be packed and transported. The setter trays of the HatchCargoSystem are compatible with almost all common pre hatch trolleys that are used in the market.

The trays can therefore be transferred one to one from the pallet into the trolleys.

Both the pallet and the setter trays are equipped with an RFID chip. This gives the customer the advantage of managing the incubation process up

to 150 eggs. All GI OVO systems are made of virgin plastic, which can additionally be provided with an antibacterial additive that reduces the risk of contamination to a minimum.

All parts of the various systems can be made in the colour desired by the customer and can be provided with customised personal inscriptions.

Everything is provided in the service of personalisation and thus recognisability. ■



www.gi-ovo.com



Number 8

FOCUS on New Installations

Bio-filtration system for new broiler breeder farm

In 2019, Jeremy and Alex Frankpitt, broiler breeder farmers in the South West of England, put forward the idea of bio-filtration to meet the environmental requirements set out during the planning phase for four new houses.

Powell & Co were chosen to see how the draperBio-Filter system could best be integrated into the Sunnylands Broiler Breeder Farm house design.

The collective objective for this project was to provide a construction suitable to meet the environmental requirements set out during the planning phase; this being the concept of the bio-filter, running almost the length of the main structure, serving four individual bird areas.

Each house was 54m x 28m in size and contained 9,000 female and 900 male birds.

The biofilter works by controlling the volatile organic compounds that cause odour. The biofilters are made up of a bed of organic materials, such as wood bark. They absorb a variety of odorous and noxious gases into a biofilm.

They are biodegradable by micro-organisms into simpler and less toxic compounds like carbon dioxide, water and salts and use the energy and nutrients to grow and reproduce.

Alongside the primary design features, the company also had to consider the practicalities involved with ongoing maintenance and health and safety.

The draperVENT ventilation system combines the need to pressurise the biofilter as an exhaust point with

providing the birds with the right climate for both winter and summer.

There are four Avicare ventilation units that provide whole house air movement, recirculation and air change without the need for conventional air inlets or roof fans.

The air exhausts into specially constructed plenum chambers between two houses, and then slowly through the biofilter.

Free range, organic and barn egg production.

The draperGROUP partnered with Fienhage, a leading global player in the poultry industry, featuring the very best German design and engineering.

Their Easy 100 Aviary system is available in various system widths



As a collective group, they have achieved a technical first of its kind and doubled the existing footprint in a protected landscape within an area of outstanding natural beauty.

making it a very popular choice. The multi-tier system optimises all available area, with the potential to create a four storey system.

The design of the rearing aviary system focuses on raising healthy and resilient birds, with considerable emphasis on the natural and

individual needs of young chicks' welfare and growth. A generous movement allowance is provided within the aviary, allowing easy management of the birds for inventory and training purposes.

Fienhage have designed a comfortable, hygienic, easy to clean nest which can be tailored to suit individual requirements. Optimising the house layout ensures maximum stocking density, whilst still allowing a natural daily routine for the hens.

The nests are equipped with comfortable artificial grass matting to minimise impact, from which the eggs gently roll onto the egg collection belt, ensuring quality clean eggs.



www.drapervent.com

