



Think  
ahead with  
**poultry**  
people

Complete solutions for **Breeders**

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# Think ahead with poultry people

The Vencomatic journey started more than 30 years ago with one man's breakthrough development in breeder housing: the first automatic breeder nest design. An innovation that characterizes the Vencomatic Group of today. We look for alternative solutions, developing sustainable and poultry friendly systems. The Vencomatic Group has over 500 committed employees who serve thousands of customers worldwide.

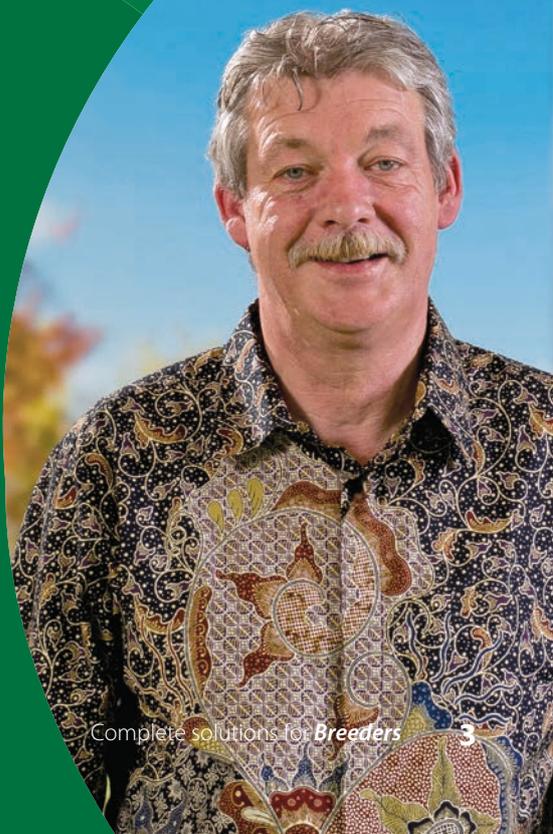
We understand how valuable insights about the birds and activities in the house are. It is important to collect and analyze data, to see trends for insight information to be sure that poultry farmers can make the right decisions more quickly. With the products in the Meggsius family, we focus on smart technology to support the poultry farmer.

Our poultry professionals know what it takes to run a successful poultry farm, and we happily share this knowledge to help our customers make their business a success. ***We've been there, challenge us!***

*"A hen has the natural desire to breed.  
To enhance her chance for offspring she will look  
for a safe, clean and sheltered place to lay her eggs.  
She will demonstrate this same behaviour in a  
breeder house. For successful hatching egg  
production it is therefore essential to create  
the conditions that allow this behaviour.  
This is what we do at the Vencomatic Group.*

*By bringing hardware and software closer together  
with the Meggsius family, we are able to measure  
and get much more detailed management infor-  
mation which gives the farmer full control."*

**Wim Peters** - Breeder specialist Vencomatic Group

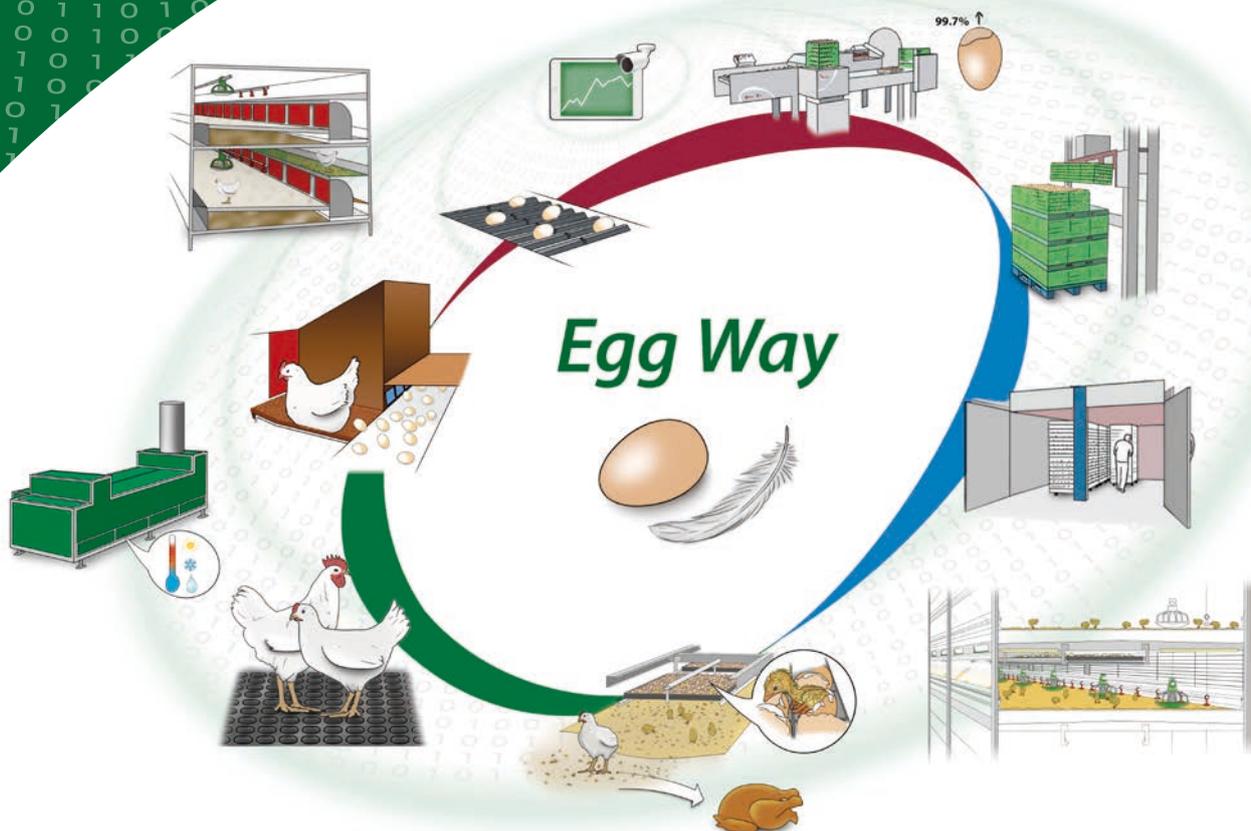


# Meggsius family

The quality of a hatching egg is of crucial importance to provide first class day-old chicks. Small details can have a big impact on your hatching performance. Vencomatic Group offers the combination of tools to collect the eggs while maintaining their perfect condition and offering maximum comfort to your birds. With the products in the Meggsius range we can guarantee a constant egg flow and monitor the complete egg way. All routine processes are automated. This greatly reduces manual labour, but more importantly, it generates data that can be turned into valuable information, to see trends for insight information to ensure that our farmers can make the right decisions faster.

## Connect the “Egg Way”

We're in the unique position that we have solutions for the entire “Egg Way”. This allows us to connect data to every part of the process that together provide insights for our customers and allows them to make decisions faster and of course, get it right first time! We create insights and give management support to increase yield! ***Lets meet the Meggsius family!***



# Meggsius Connect



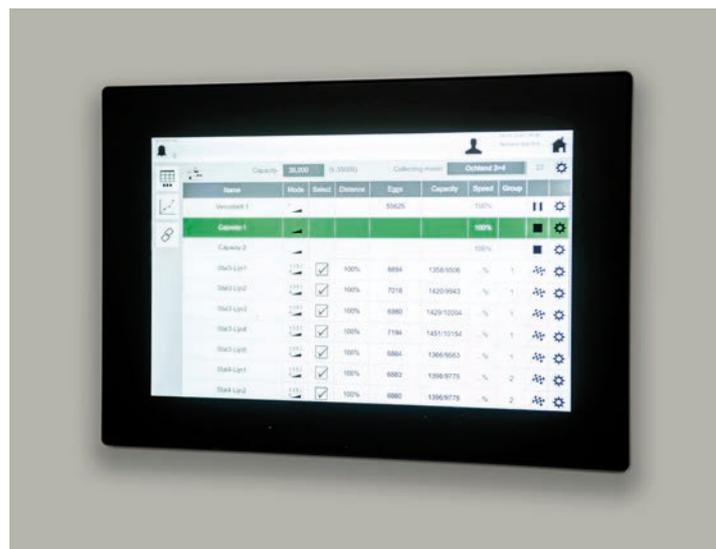
All Meggsius products are ready to be connected to the Meggsius Connect. A platform that retrieves relevant data from the Meggsius devices and present them in a user-friendly dashboard. This makes it possible to visualise and analyse the data, in order to gain better insights into production results and make more informed decisions.



# Meggsius Control



The Meggsius Control provides total control over the entire egg flow. In combination with the Meggsius Count a constant flow to the packer is realized. The farmer enters the capacity, and the system runs automatically. There are several possibilities to collect the eggs, row by row, house by house or morning and afternoon turning. The complete poultry house configuration is programmed in the Meggsius Control with the length of the egg and conveyor belts. This results in a high degree of accurate identification where the egg is laid in the house to determine trends or solve any problems.



# Meggsius Count



Meggsius Count automatically and accurately (99.7%) counts eggs using vision technology which ensures an accurate counting in dark and dusty houses. Each egg belt is counted individually. This ensures a clear insight into the production and allows a continuous egg collection. With the connection to the Meggsius Control a fully automated egg collection will be achieved.



# Meggsius Detect



The system detects leaking eggs rolling off an egg belt onto the in-feed conveyor of a packer. When a wet leaky egg passes Meggsius Detect a short circuit occurs at the transition and the egg belt and the packer's infeed belt will stop. When a stop occurs a visual signal is given. After removing the leaky egg and cleaning, the system is simply restarted by pushing the signal button.



# Top quality hatching eggs

From the very first moment an egg is laid until it reaches its final destination, a commercially produced egg travels a long and tough journey. At Vencomatic Group we focus on perfecting every detail of this journey protecting eggs from damage or contamination. This journey starts in a reliable nest, designed using smart innovations.

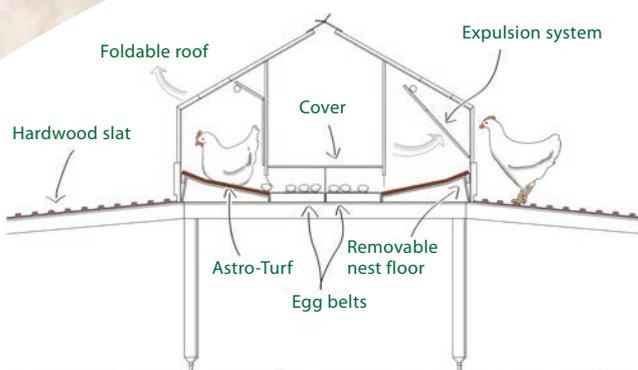
Van Gent Nest:  
best  
performance  
results



## Van Gent Nest

The Van Gent Nest is well known for its performance: minimum floor eggs, high quality number of hatching eggs and simplicity. Years of experience in many houses across the globe have proven this. The construction is solid and simple. It is very easy to assemble and to clean. The nest comes with an automated expulsion system, which means it gently pushes the birds from the nest during the night, preventing broodiness and soiling the nest.

The Van Gent Nest is made of wood and encourages the natural behaviour of the birds. Research into nesting behaviour in broiler breeders has shown that hens have a clear preference for a wooden nest. The nest provides ideal conditions for the hen to perform at her best and to safeguard the quality of the eggs.



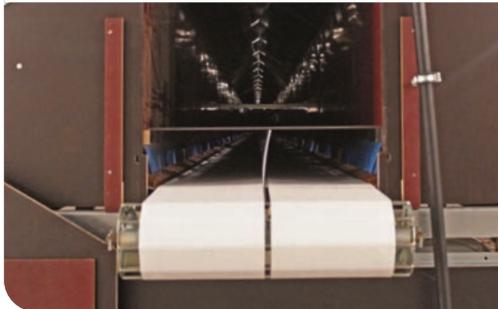
### Van Gent Nest

Egg belt:	centerbelt
Number of tiers:	1 or 2 tiers
Type:	single or double
Size:	standard or XL



## Van Gent Nest

- Automated expulsion system;
- Deep, removable floor to accommodate a large number of hens;
- Easy nest inspection due to partly hinged roof;
- Egg belt for gentle transport;
- Egg belt cover, prevents draft in the nest and dust contamination;
- Durable materials.



## Van Gent flooring

- Optimal hygiene;
- Open structure improving hygiene;
- Strong and durable materials withstand all climate conditions;
- Comfortable flooring ensuring good bird movement and successful mating;
- Hardwood slats have a very long lifespan and are easy to install.



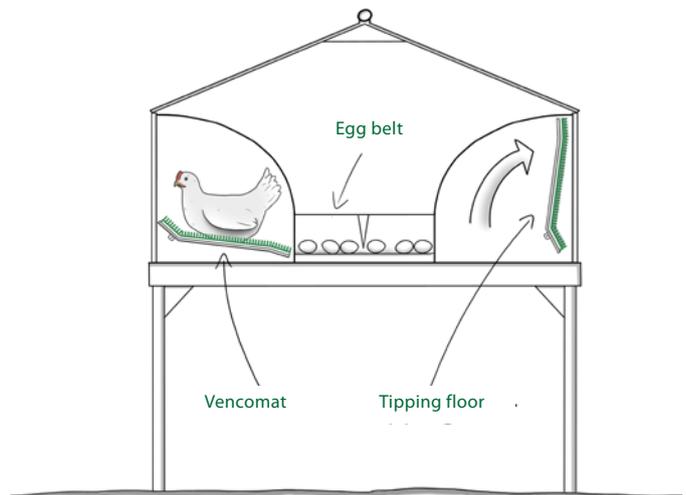


## Vencomatic Nest

Reliability is the key to success for the nests of Vencomatic. Vencomatic nests offer a clean, sheltered place for the hen to lay her eggs, resulting in a high nest acceptance. The unique Vencomat in combination with the tipping floor ensure a smooth roll onto the egg belt. These components protect the eggs, preserving their perfect condition after laying.

Vencomatic nests have a strong and solid construction and are made of durable materials. All nests are available in different configurations to fit any farm layout.

	Vencomatic Nest	Vencomatic Nest Condor
Egg belt:	centerbelt	centerbelt
Number of tiers:	1 or 2 tiers	1 tier
Type:	single or double	double





## Vencomatic Nest Condor

The Vencomatic Nest Condor is a winchable nest system for broiler breeder poultry housing. This nest is especially developed for hot, severe climate conditions. The unique features of a Vencomatic nest ensures optimal hatching egg quality.

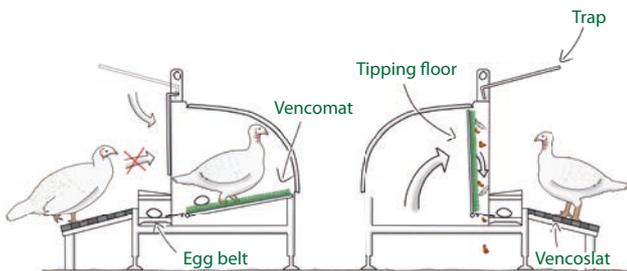
Vencomatic Nests  
your key to  
success



# Turkey Nest

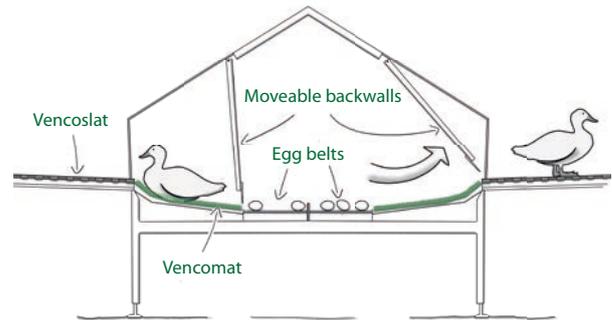
Turkeys require large and robust nests that withstands the strength of these animals. In 1986 Vencomatic developed an individual nest especially for turkeys and has a leading position ever since. The use of durable and strong materials in combination with the specifically to turkeys adapted design, form the base for the worldwide success of this nest. Through use of the proven components like the Vencomat, tipping floor and egg belt, the quality of the hatching eggs is preserved. A unique feature of the Turkey Nest is the trap mechanism. The trap only closes after a bird has entered, preventing a second bird to enter the nest. In open position young birds will therefore easily explore the nest and quickly accept it.

- Attractive nest resulting in minimal number of floor eggs;
- Tipping floor prevents broodiness;
- Unique trap mechanism for easy access;
- Direct roll away of eggs preventing broodiness;
- Solid construction and use of durable materials.



# Duck Nest

Vencomatic was the first to enter the market with an automatic nest for ducks. The Duck Nest is designed for the unique needs of water fowl, while still implementing the proven innovations of our poultry nests. The moveable back wall is used to automatically expel birds from the nest after laying, preventing broodiness in the birds. The eggs gently roll onto the central egg belt safeguarding the egg quality.





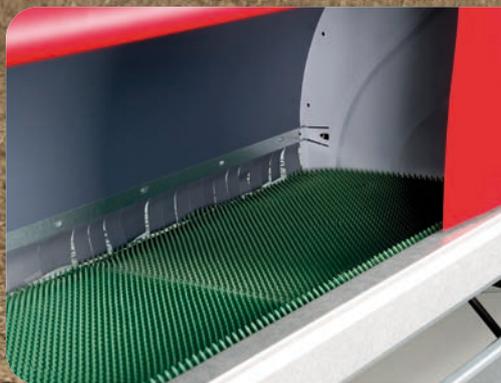
### *Vencoslat, optimal hygiene*

- Open structure improving hygiene;
- Strong and durable materials withstand all climate conditions;
- Comfortable flooring ensuring good bird movement and successful mating.



### *Vencomat, for maximum comfort*

- Comfortable nest flooring that attracts the hen;
- Maximum hygiene through open structure and minimum contact with the egg;
- Gentle roll of the egg towards the egg belt.



### *Tipping floor, reliable closing system*

- Expels birds to prevent broodiness and soiling;
- Lowest nest floor angle in the industry ensuring a gentle egg roll;
- Automatically tips out dust and dirt for a clean nest.



### *Egg belt, for gentle transport*

- Unique design that prevents egg movement;
- Minimal contact between the egg and belt to secure egg quality;
- Antistatic material for optimal hygiene.



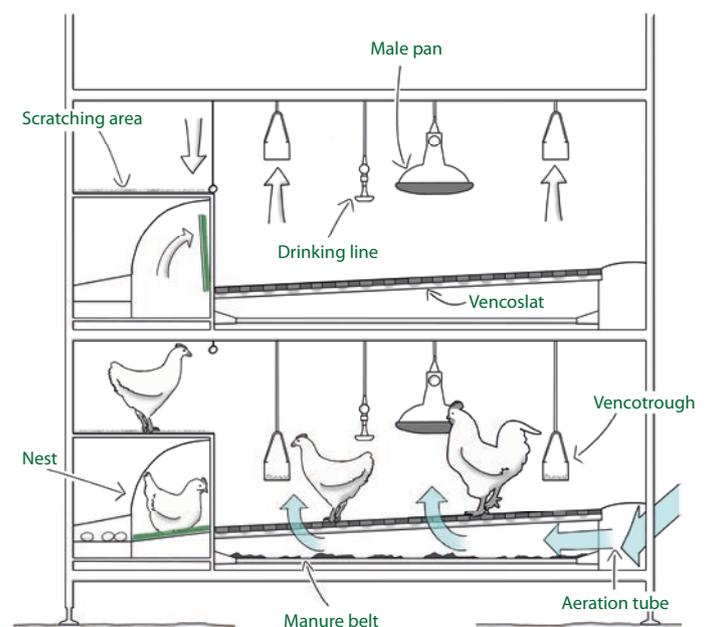
Efficient  
hatching egg  
production

## Veranda Breeder

The Veranda Breeder is a multi-tiered group housing system for breeders. Birds are housed in small groups for accurate management data. Group housing assures a uniform distribution of males and females and reduces stress within the flock. Veranda Breeder allows efficient hatching egg production and maximum bird health.

- Perfect technical results; high egg numbers with high feed efficiency;
- Multi-tier system increasing the number of birds per m<sup>2</sup> floor area;
- High level of automation enables managing high numbers of breeders per worker;
- Optimal hygienic conditions;
- Minimal contact with rodents due to system housing;
- Large aeration tubes provide fresh air at bird level;
- Climate system reduces dust and the emission of ammonia to an absolute minimum.

Complementary to the Veranda Breeder is the Veranda Manager. This compact user friendly touch screen computer allows you to manage and automate the daily procedures, such as operating the nests, lighting, feed and drinking lines, egg belts, etc. The Veranda Manager interface provides one clear overview of all processes in the house.



Unique  
simultaneous feed  
distribution

## Feeding

Simultaneous feeding in equal portions is key to prevent stress during feeding and for uniformity of the flock. The Vencopan uses a buffer in top of the pan. Once feed is distributed to all buffers, the system opens and delivers the feed to the birds. Its coin chain system prevents demixing of feed and distributes small portions keeping birds from selective eating.

The Vencotrough is a robust chain feeding system equipped with an optional winching system. Winching the trough creates more space for birds to mate and optimizes the accessibility of the nests. Distribution of feed takes place when the troughs are winched to ensure birds have feed access at the same time once the trough is lowered. The grill on top of the trough prevents males from eating with the females.



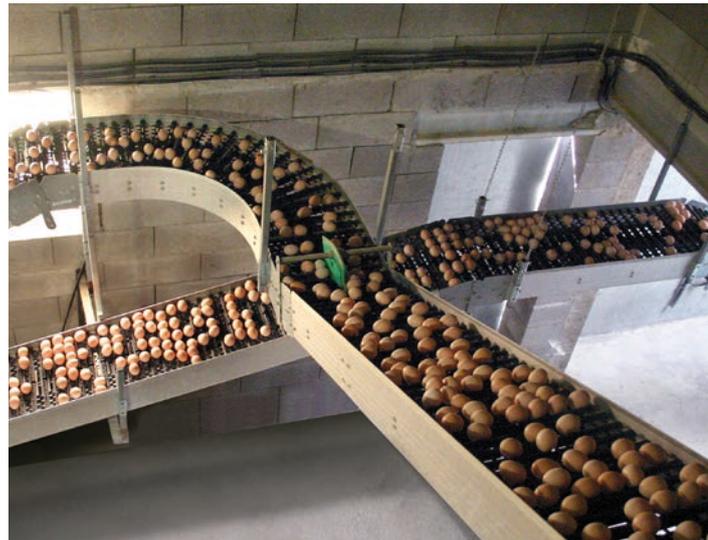
## Egg transport systems

Eggs can be transported from different nest rows or houses to a central packing location.

### Vencobelt

The Vencobelt is designed for gentle handling of eggs.

- Available in 40 and 55 cm widths;
- Capacities up to 45,000 eggs per hour;
- Slopes up to 35 degrees;
- Corners up to 180 degrees;
- Compact corners due to single drive chain.



### Pegasus

Pegasus is the smart egg transport system for safe and efficient egg collection. With the Pegasus we keep the benefit of the incline belts while we decrease the use of space.

- Limited required space, small footprint;
- High capacity;
- Only 2 egg transfers;
- Flexible solution; rows don't need to be positioned straight above each other.



# Effective climate control

Health, and thus performance of poultry, first and foremost depends on the quality of the air in a breeder house. A healthy climate is created by controlling the air flow inside the poultry house and bringing fresh air at the right temperature at bird level. We offer you the solutions to create optimal conditions in a profitable way.

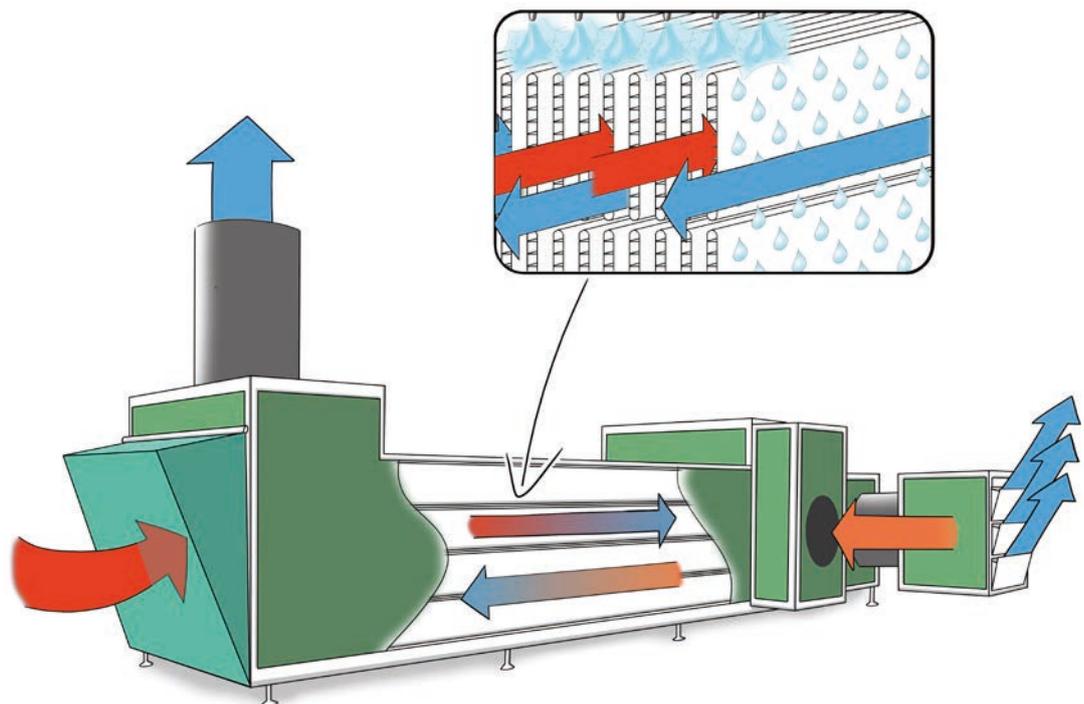
## ECO Unit

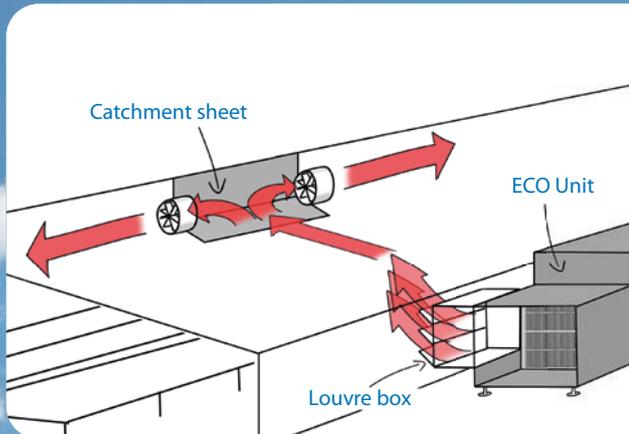
The ECO Unit allows you to control the climate in your breeder house in all weather conditions with minimal use of energy.

In cold conditions, the ECO Unit is a heat exchanger that uses warm air from inside the house to heat up fresh air from outside. It achieves a thermal efficiency of 80%.

In warm conditions, water can be sprayed within the unit on the outgoing air, causing evaporative cooling of the outgoing air. This also cools down the incoming air considerably – over 13 °C cooling – without an increase in absolute humidity.

At the same time, the ECO Unit reduces the emissions of ammonia, due to drying the litter inside. This can result in 20-40% lower ammonia emission. It also reduces the emission of fine dust, 80% of the dust particles in the air passing through the ECO Unit remain in the unit and are not emitted, resulting in approximately 30% fine dust emission reduction to the environment.





## Air distribution

Pre-heated or pre-cooled air is brought directly into the house and projected towards the roof, where circulation fans spread the air throughout the house. This ensures an even temperature and uniform climate throughout the entire house and optimal litter quality. Intelligent software governs this technology and allows you to realise substantial savings in heating costs and reduction in environmental emissions, such as ammonia, fine dust and CO<sub>2</sub>.



## Cleaning

Proper cleaning of heat exchangers is important for optimal functioning of the units. Removable side panels provide accessibility to the core of the unit facilitating manual cleaning. Automatic cleaning is available as an option. It can be used while the ECO Unit is in operation, without interruption of the ventilation process. The unit keeps its maximum thermal efficiency without dirt blocking the airflow and heat transfer. It reduces both labour costs and water consumption through recycling.

## ECO Zero

With ECO Zero, maximum ventilation is realized by ECO Units. The system guarantees full control of the climate under all outside conditions. The ECO Zero system cools using indirect adiabatic cooling. Indirect adiabatic cooling works with two air flows: the humidified outgoing air and ingoing air to be cooled. The outgoing air is humidified and passed through the ECO Unit, where it releases its cold to the ECO Unit and is then discharged to the outside. In the ECO Unit, the incoming air (outside air) can absorb cold without becoming moisturized and then cool the house.

ECO Zero is a very energy efficient system of heating, cooling and ventilation. The optimal climate results in optimal productivity of broiler breeders, both for the rearing and production phase. Additionally the fine dust emission is reduced with 80%.



# Unsurpassed **points down** setting

With over 30 years of experience, Prinzen is leading the way in automated processing of hatching eggs, in farms and in hatchery operations. The unsurpassed points down setting rate of 99.7% maximizes the hatchability of your eggs. Throughout the whole process, from egg belt to setter tray, the eggs are treated with great care. Setting machines of Prinzen will offer you the best solution for automated egg handling at your breeder farm.

## Egg setting machine range

Prinzen egg setting machines are the perfect solution for accurate and gentle setting of hatching eggs directly onto setter trays. Manual labour is strongly reduced while safeguarding the quality of the eggs. The Ovoset is a semi-automatic machine, with the trays handled manually. The PSPC- series and the Ovoset Pro take automation of hatching egg setting one step further. Setter trays are automatically handled and positioned for egg transfer and setting. The compact machines allow a good overview of the entire process and are easy to operate. The stainless steel construction and service accessibility make cleaning quick and easy.

- Reduces manual labour;
- Gentle egg handling;
- Fits in every egg room;
- Easy operation;
- For all types of setter trays.

	Capacity	Parallel matrix trays	Offset matrix trays
<b>Ovoset</b>	12,000 eggs / hour	X	X
<b>PSPC5</b>	18,000 eggs / hour	X	
<b>PSPC7</b>	21,000 eggs / hour	X	X
<b>Ovoset Pro</b>	30,000 eggs / hour	X	X

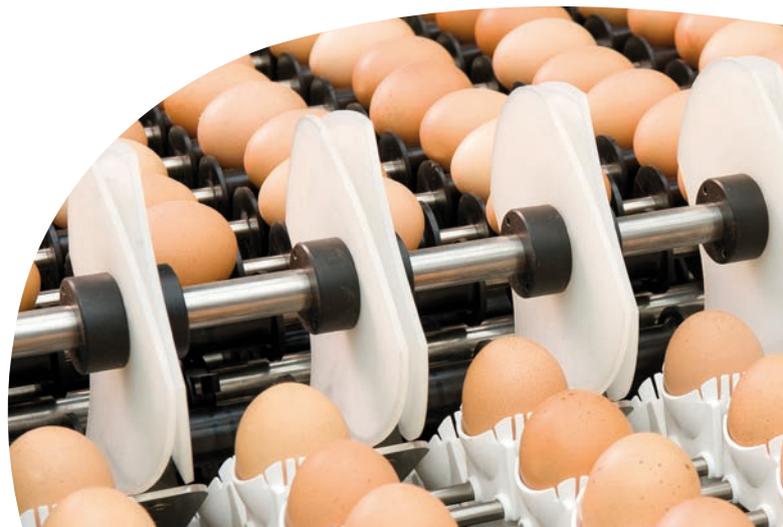
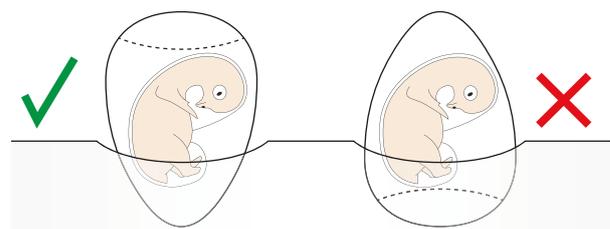
Capacity figures are indicative and are setter tray type dependent.

## Point down setting

Prinzen setting machines are world renowned for their unsurpassed points down setting of 99.7%. An accurate points down setting of hatching eggs onto setter trays is a prerequisite for maximising hatchability results.

Automatic versus manual point setting:

- Reduces bacteria cross-contamination;
- Reduces hairline cracks;
- Optimal egg storage temperature through frequent egg collection;
- Reduces labour;
- 2.7% better point down setting.





### *Egg transfer system*

Eggs are gently transferred from the egg setting machines onto setter trays with a low pressure vacuum transfer head. The transfer head lifts eggs and places them carefully onto trays. Various adjustable vacuum transfer heads allow placements of eggs in corresponding tray patterns.



### *Egg coder*

Egg coding systems are available for all our packers. We offer two high quality methods for coding individual eggs at minimal costs.

- The Ovoprint
  - Inkjet technology;
  - Print head adapting to each individual egg height;
  - Print field: max. height 4.2 mm / length 50 mm;
  - Over 200,000 eggs per ink cartridge.
- The Ovostamp:
  - Gentle code stamping using a flexible rubber head;
  - Ink pad easy changeable and refillable;
  - Over 250,000 eggs per stamp.



## Egg grading

Egg grading results in more uniformity among hatching eggs and thus day-old chicks. Prinzens' egg graders are known for their accuracy and user friendliness. The egg grader separates eggs into predefined weight classes. Non-hatching egg sizes are routed automatically to the hand packing table. You can easily keep track of the performance of the flock with the touch screen computer that produces crucial statistical information.

	Capacity	Weight classes
<b>Ovograder 20</b>	30,000 eggs / hour	3
<b>Ovograder 30</b>	30,000 eggs / hour	4



## Trolley Loader

The Trolley Loader completes the automatic egg handling process, increasing productivity even further. It substitutes the heavy and repetitive manual labour of placing setter trays into trolleys. The Trolley Loader is compatible with the capacity of the Prinzen egg setting machines. It corresponds with several brands, types of setter trays and trolley types, both farm transport trolleys and setter trolleys. The compact design requires minimum floor space.

# Venco Campus

## Home of Poultry Innovation

What suits a team of poultry people better than an egg shaped building? We are accommodated in one of world's most sustainable buildings: the Venco Campus. This building reflects our mission of being the number one global player for sustainable, poultry friendly systems.

The Venco Campus serves as an international knowledge and innovation center for the poultry industry. We strongly believe in open innovation through collaboration. Your experience is of great value to us and we invite you to explore what poultry innovation can offer you. ***Together we bring the poultry sector to the next level.***





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