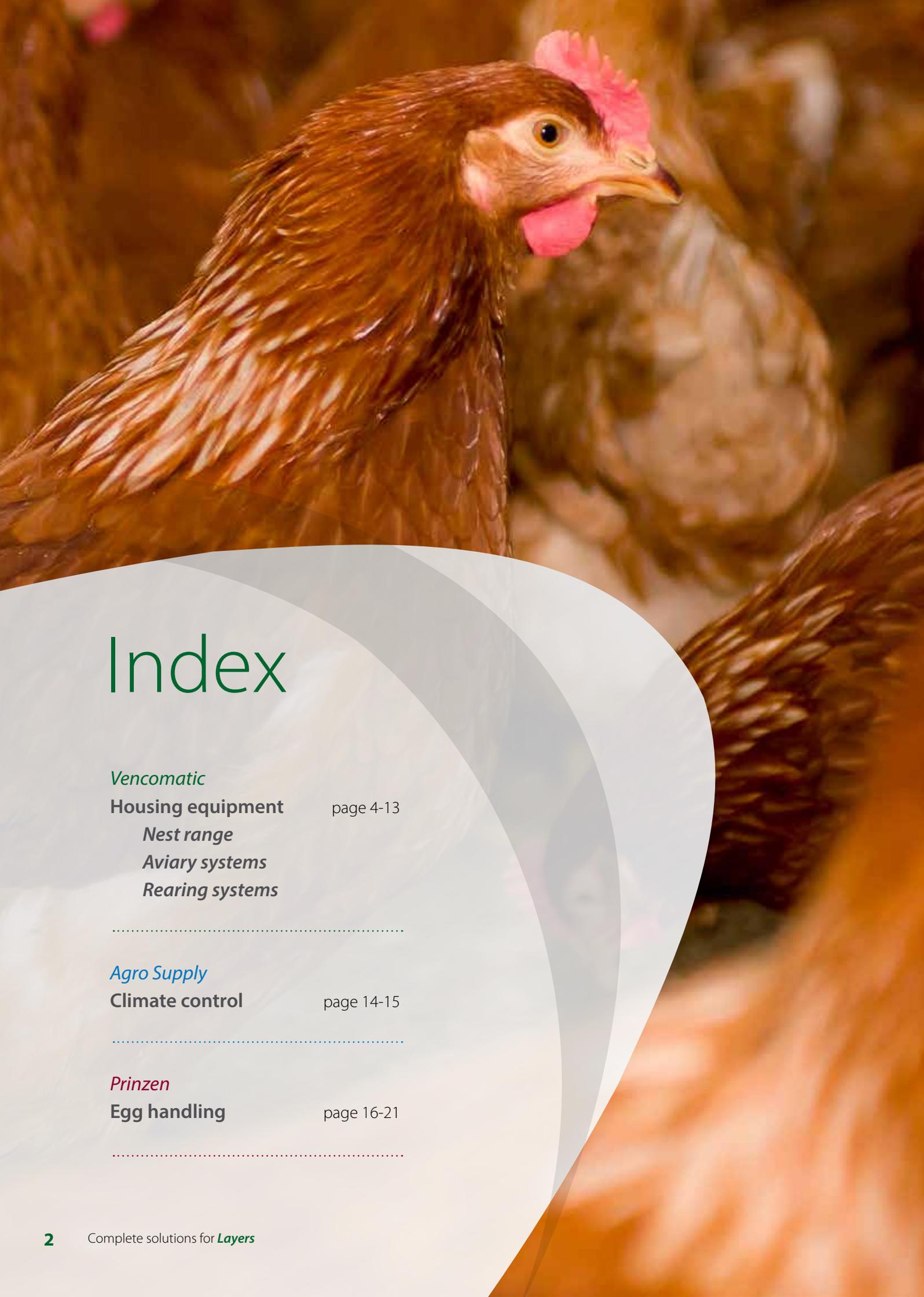


A photograph of a large-scale poultry farm. The facility is filled with numerous brown chickens housed in multi-tiered metal cages. A man wearing a black t-shirt and dark overalls is walking through the aisles, looking upwards. The lighting is bright and industrial.

Think  
ahead with  
**poultry**  
**people**

Complete solutions for **Layers**



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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 for layers, breeders and broilers. Our team serves thousands of customers worldwide for this purpose. 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!***

*"To achieve the best possible results in table egg production it is essential that birds quickly find their way in a housing system. Positioning of water, feed and laying nests should follow the natural behaviour of the bird. In the rearing phase birds must be trained to jump to different levels to be able to access water and feed in an aviary system."*

**John Bierens**

*Sales Director Europe Vencomatic Group*



# Top quality table eggs

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

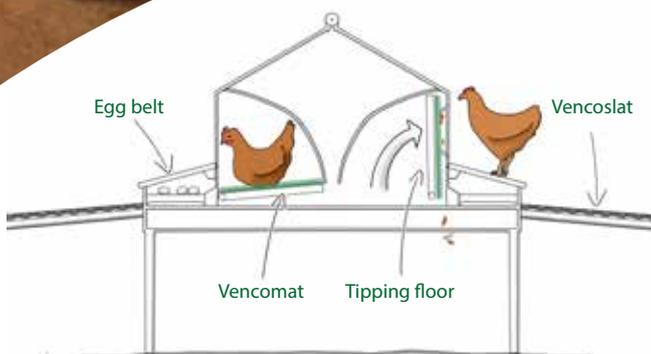
Vencomatic nest,  
your key to  
success



## Vencomatic Nests

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 lay.

We offer three types of nests: the Classic Nest, the Grando Nest and the Grando Castle. The Grando Nest is a more spacious nest with a wider entry. The Grando Castle has a modular design, offering maximum flexibility and providing an optimum fit. All the nests are available in different configurations to fit any farm layout and for integration in our aviary systems.



	Classic Nest	Grando Nest	Grando Castle
Egg belt:	center belt or side belt	center belt	side belt
Number of tiers:	1 or 2 tiers	1 tier	1 tier
Type:	single or double	single or double	single or double



### *Vencoslat, optimal hygiene*

- Open structure improving hygiene;
- Strong and durable materials;
- Withstands all climate conditions.



### *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 preventing cracked eggs.



### *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 and reduce contamination;
- Antistatic material for optimal hygiene.

# Natural behaviour in aviary systems

Extensive studies of laying hen behaviour taught us that birds perform best in a system similar to their natural environment. This knowledge resulted in aviary systems with strategic positioning of water, feed, nests and perches. Hens therefore effortlessly find their way in Vencomatics aviary systems resulting in a calm flock with few floor eggs. A flock that can be perfectly managed for top laying performance.

**Pleasant working environment** - Our systems are designed with the poultry manager in mind. The open structure provides a good overview and maximum accessibility of the system, for easy inspection and cleaning. The result is a pleasant working environment for every poultry manager.

**Durable** - Vencomatics aviary systems are made of durable materials, such as stainless steel, Zinc-Aluminium alloys and robust LED lighting. These materials and the solid construction withstand the challenging conditions in a poultry house, and assure:

- easy cleaning;
- long life span;
- energy efficiency.

**Climate** - Air quality in the house is excellent due to the integrated manure belts and aeration tubes, enabling instant manure drying. In combination with regular removal of manure, this leads to:

- significant reductions in ammonia levels;
- fresh air at bird level at all times;
- a healthy environment for bird and manager.





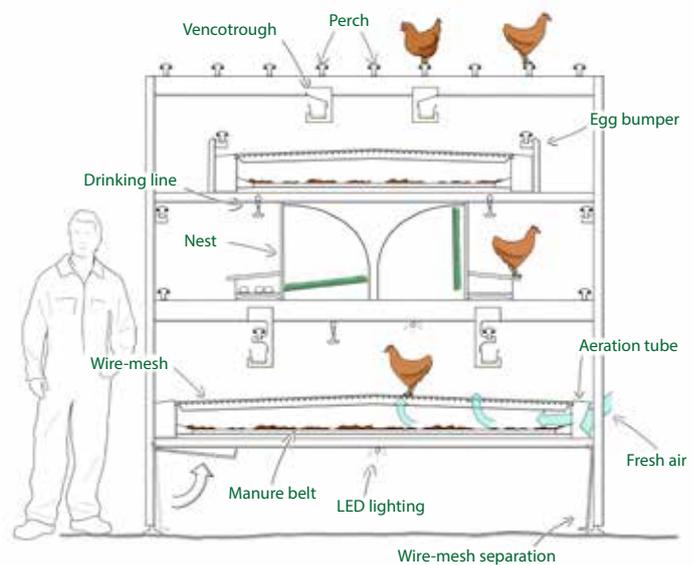
## Bolegg Terrace

No other system has an open structure like the Bolegg Terrace. It is designed like a tree which combined with smart positioning of the perches, facilitates vertical movement of the hens. Without encountering any obstacles hens can move within the system and over its full length.

The nest is located at the heart of the Bolegg Terrace. Every morning hens descend from the perch to drink, eat and lay their eggs. The attractive and comfortable nest area minimizes eggs laid outside of the nest.

The Bolegg Terrace has wide and obstacle free corridors. The corridors and the open structure ensure:

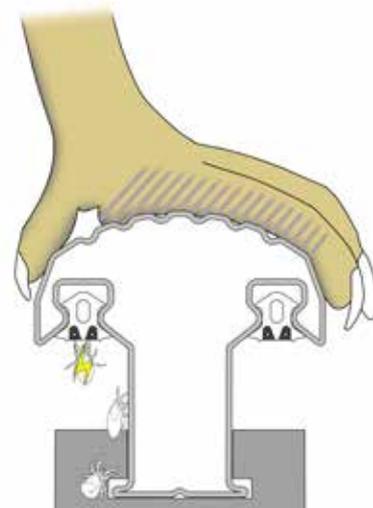
- good visual access for easy inspection;
- an optimal light distribution minimizing floor eggs;
- a pleasant working environment;
- possibility for cleaning with a mini loader.



## Q-Perch

The Q-Perch is a mechanic solution that controls Poultry Red Mite based on their natural lifecycle. The Q-Perch is a perch containing two barriers, that kill red mite on their journey towards the chicken. There is a small electrical current running through the barriers with which the chickens cannot come into contact, but is lethal for red mite. The Q-Perch offers a continuous line of defence, reducing the number of red mites in the poultry house. Pesticides can be eliminated and the hens can rest on the Q-Perch at night without being infested by red mite. This leads to better bird health, improved egg quality and increased production.

The mushroom shape of the Q-Perch is studied to be the most comfortable shape for chickens, as it offers stability and grip. The Q-Perch can be integrated in the Bolegg Terrace.





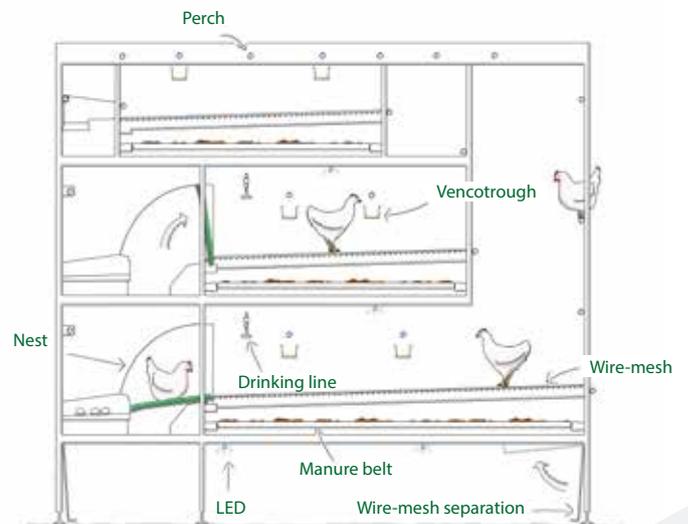
## Bolegg Gallery

Bolegg Gallery is an aviary system offering comfort to both the bird and the poultry manager. The multi-tier system provides maximum living area, with easy accessible feed, water and nesting areas on one level. The system follows the proven tree-concept, stimulating bird movement throughout the system.

The clever design and construction of the Bolegg Gallery optimizes labour efficiency. All 3 tiers are equipped with egg belts, enabling automatic collection of eggs. This design allows for easy inspection and an internal walkway provides a good overview and access to all levels. Inspection of the nests is simple thanks to the winchable backwalls that give direct access to the nest and egg belt. Combined with easy operation of all processes, the Bolegg Gallery:

- offers easy management;
- enables efficient egg collection;
- prevents eggs remaining in the system;
- maximizes birds per house;
- guarantees a safe choice, regardless of the rearing system.

Managing aviary birds is easier than you think

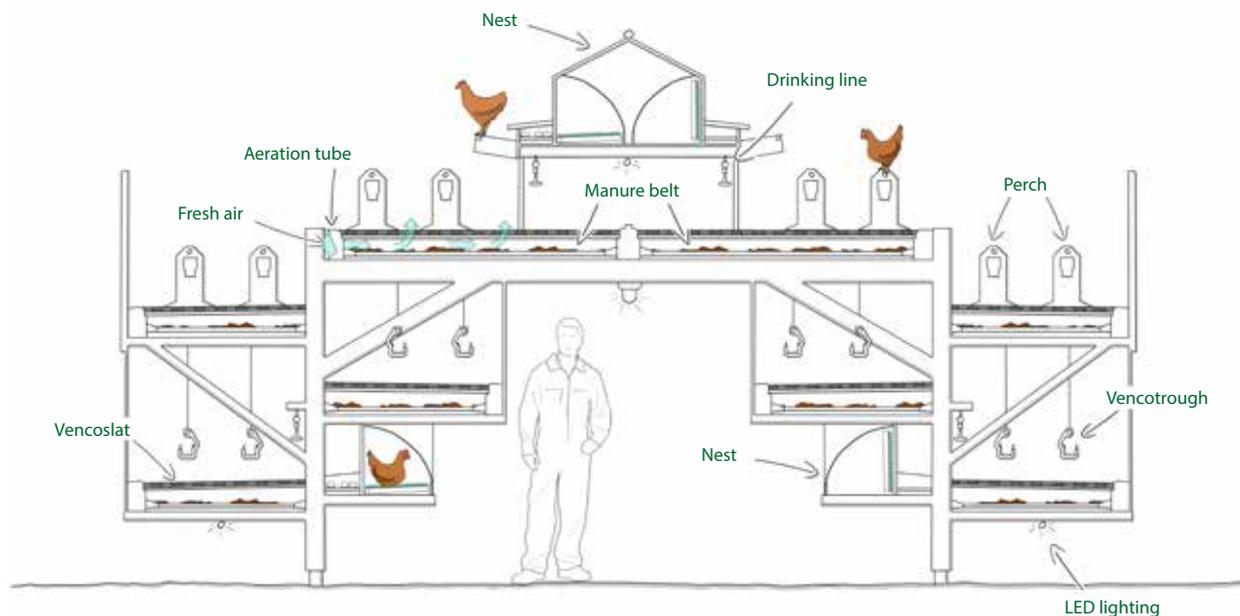


# RED-L

RED-L is the abbreviation of Resting, Eating, Drinking and Laying. Its' design integrates these basic needs in a unique porch structure. Hens experience the freedom to move from one level to another just as they would do in a tree following their natural instincts. The RED-L holds a large living surface within the system and 100% availability of floor space. With its many tiers and open structure the RED-L offers:

- optimal freedom for birds;
- water, feed, nests and perches on multiple levels;
- a maximum number of birds per house;
- easy access on all sides and levels for the poultry manager.

The integration of Vencomatic nests on several tiers minimizes the number of eggs laid outside the nest. Furthermore, the possibility to close off the scratching area facilitates training and familiarization to their new surroundings upon arrival. This results in even better performance and an easy to manage flock.



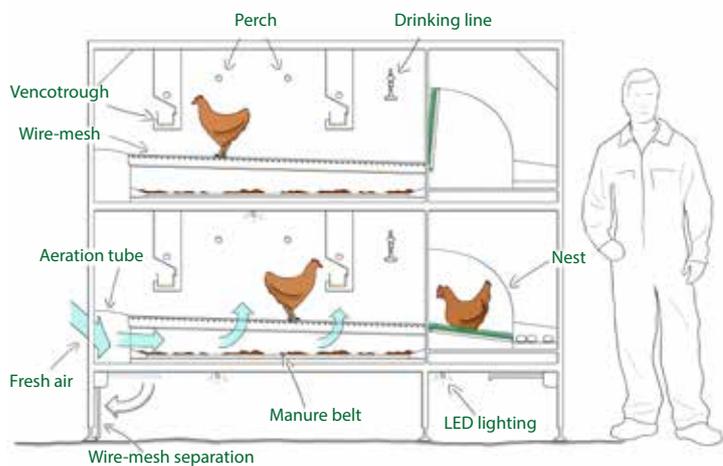


## Veranda Aviary

With the two-tiered Veranda Aviary you have full control over your layers. Each tier offers feed, water and nest space, providing easy access for all hens to these essentials. Exterior ramps facilitate access to both levels and the scratching area. The Veranda Aviary:

- performs well in all conditions;
- prevents eggs remaining in the system;
- being easy to manage maximizes the number of birds per manager.

The Veranda Aviary fits into any poultry house thanks to its compact configuration. Its unique design ensures a controllable environment and thus easy management. Inspection of the nests is simple thanks to the winchable back walls that give direct access to the nest and egg belt.



## Solutions to fit every house

Our aviary systems fit both existing and newly built poultry houses and ensure an optimal layout for your house. Several options allow you to create extra living surface maximizing the number of birds per square meter of floor space. This extra living surface can include nesting areas, and/or feed and water circuits.

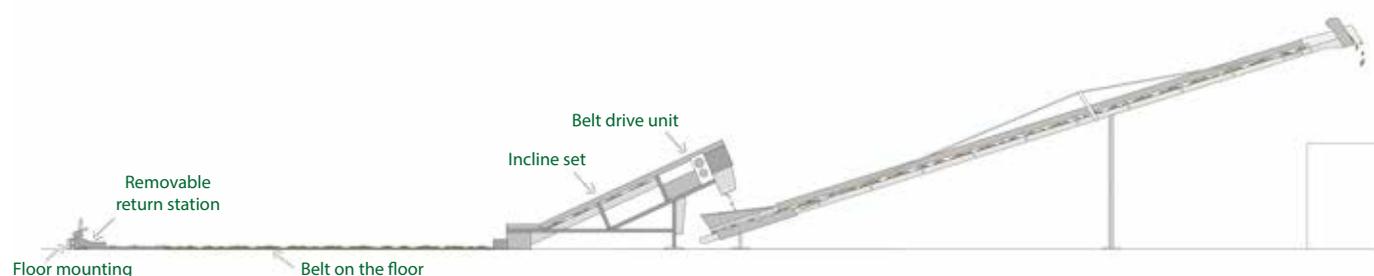
- The Bolegg Perfecta allows for a higher bird density through the use of tiers. It has integrated manure belts, feeding and drinking lines and can be installed in houses with the Classic or Grando Nests or a Bolegg Terrace system;
- The Vencomatic Manure belt System (VMS) is used for the removal of manure and also creates additional living surface. It can be installed in between rows of the Bolegg Terrace, or on top or beside a row of Classic Nests.



## Hercules Cross Conveyor

The durable Hercules Cross Conveyor, with its compact and simple design, is a reliable and easy way to remove manure out of the house. The frameless conveyor belt can be installed in both new and existing houses which makes the need for a manure pit redundant.

- Saves the significant cost of installing a manure channel;
- Provides a hygienic environment;
- Increases labour efficiency.



# A good start is the key to success

Optimal rearing is essential for top performing laying hens. Vencomatic rearing systems prepare birds to find their way in a multi-tier system ensuring the best results in the production phase.

**Training** - Day-old chicks must be able to find feed and water directly after placement. Gradually they learn to jump to different levels and to rest on perches. This training guarantees strong performances of the birds once they are in an aviary system.

**Natural instinct** - Copying natural behaviour of a chick to the system allows for a smooth rearing process. Therefore rearing systems of Vencomatic are, like our aviary systems, based on natural bird behaviour.



## Unistart

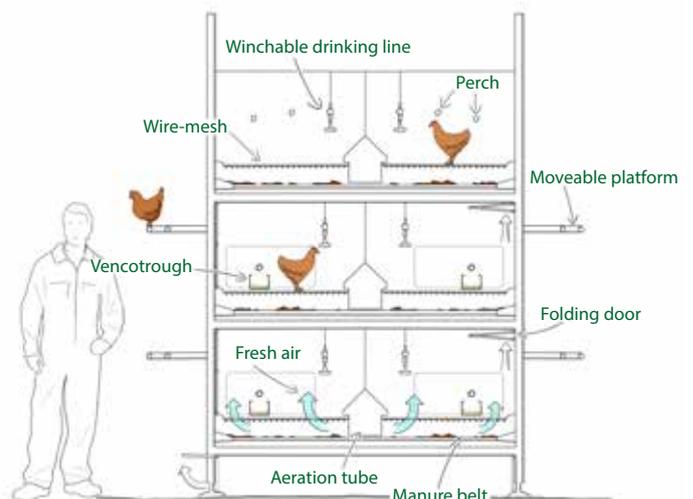
Unistart is an economical and easy to manage rearing system. It is configured in rows and gives the poultry manager full control over his birds. Thanks to its compact dimensions it fits in every house and allows a high number of birds per square meter of floor surface.

Day-old chicks are evenly spread over the compartments. After 4 weeks, when the training starts, the compartments open so the chicks can move through the house. The exterior platforms train them in vertical movement to all levels.

All moveable elements are centrally controlled by a motor or a hand winch at the front end of the row. Individual doors can be partially folded or opened by hand. Together with the open construction this allows for:

- excellent visual access;
- easy inspection, vaccination, catching;
- thorough cleaning.

All three levels are equipped with manure belts. As an extra option we offer aeration tubes to improve the climate in the house.

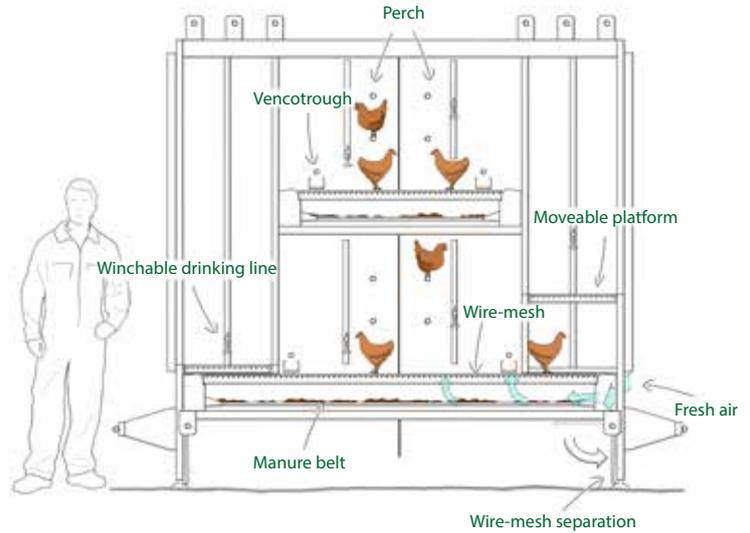


# Bolegg Starter

With the Bolegg Starter you have an excellent training facility with optimal ease of use. In this row system with internal platforms, training of the chicks starts at day one. By winching the integrated platforms, water and feed levels are gradually pulled apart following the birds growth. This triggers the birds to jump to different levels in the system.

After 6 or 7 weeks the doors open and birds can move freely in the house. While the birds rest on the integrated perches at night, the poultry manager easily locks birds in the system for vaccination or catching.

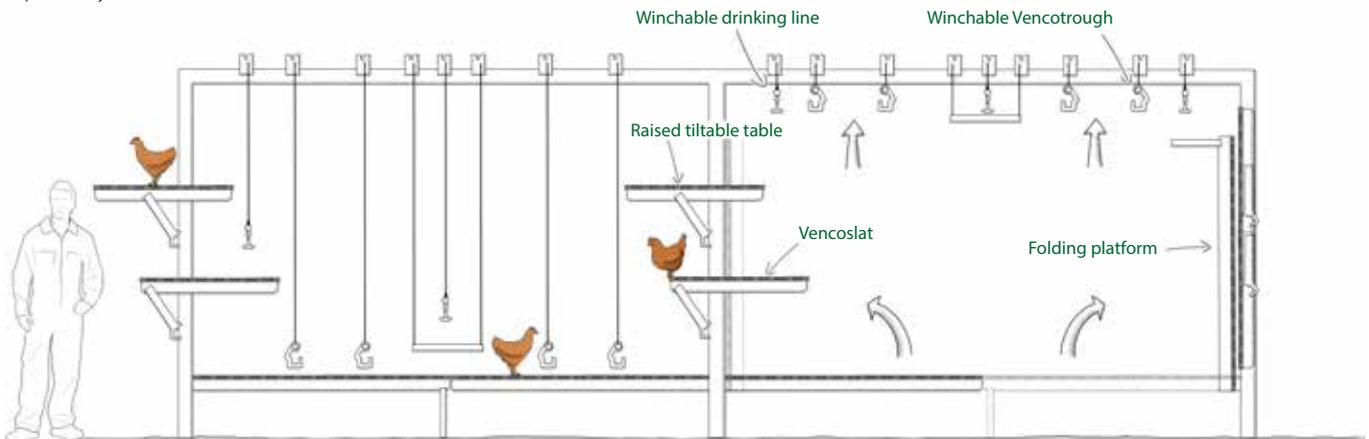
All levels are equipped with manure belts and aeration tubes ensuring dry manure, fresh air at bird level and a good climate in the house. Rearing in the Bolegg Starter results in a uniform and healthy flock ready for life in an aviary system.



# Jump Start

With the Jump Start you rear birds to be true athletes. Day-old chicks are placed on a slatted surface where they have direct access to feed and water. As birds grow the difference between feeding and drinking levels gradually increases so the birds learn to jump to different levels and perches. Hens reared in the Jump Start have had excellent training and will find their way in any aviary house. The unique porch system incorporates winchable feed and drinking lines, and hingeable platforms. This makes the Jump Start a very flexible system, with strong features:

- good visual overview;
- easy to operate;
- robust construction;
- quick and easy cleaning;
- perfectly trained birds.



# Air quality is important to your hens' health

We believe that the health and thus productivity of hens first and foremost depends on the quality of the environment they live in. A healthy climate is created by providing fresh air at bird level and removing contaminants such as moisture, ammonia and carbon dioxide.

This is also a specialism of the Vencomatic Group.



## Clima+

Our Clima+ unit creates an optimal climate all year round through even distribution of pre-conditioned fresh air at bird level directly above the manure belts. This dries the manure quickly what reduces the evaporation of ammonia from the manure, resulting dryer manure with higher nitrogen content, lower ammonia concentrations in the house and lower ammonia emission to the environment. This is very beneficial for the production of your hens resulting in:

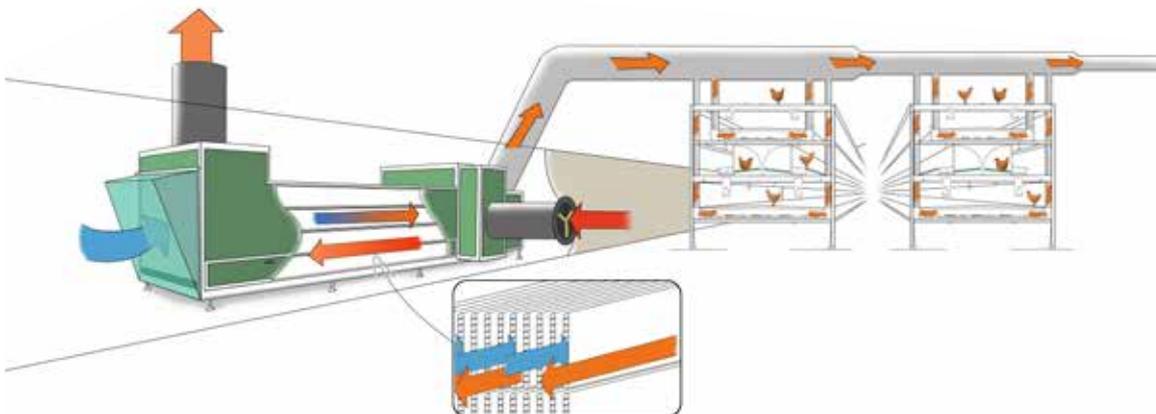
- Lower food conversion ratio;
- Lower mortality;
- More eggs per hen.

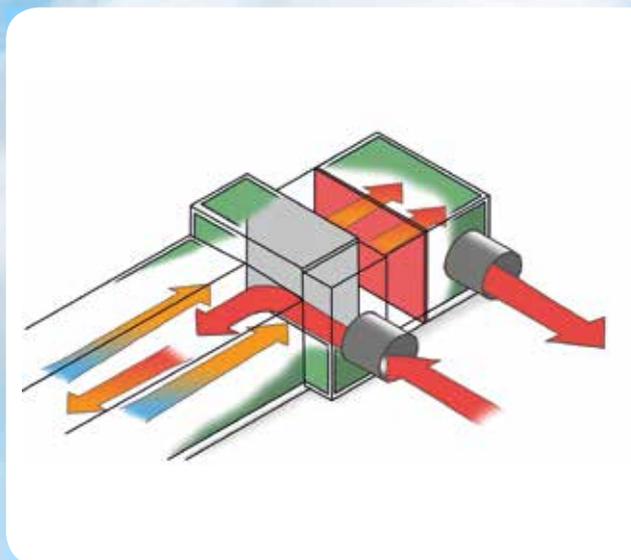
### Clima+ design

The Clima+ unit recovers heat from the exhaust warm air taken from inside the house and uses it to preheat fresh air from outside. Through counter flow stream it achieves a thermal efficiency of 80%! Intelligent software governs this technology and is developed based on a thorough understanding of climate control in poultry houses. Via aeration tubes the Clima+ 1000 heat exchanger brings fresh preheated air at bird level. These aeration tubes are characterized by its aerodynamic design for transporting large volumes of air. The preheated air is distributed directly under the birds and onto the manure belt:

- Optimizing the drying of the manure;
- Decreasing its humidity resulting in low ammonia emissions;
- Reducing energy use, which significantly lowers heating costs.

With the Clima+ you create a perfect and constant climate in the house resulting in optimal bird performance.





### *Pre- or post heating unit*

The Clima+ can be extended with a pre- and/or post heating unit to enhance results during very cold periods. The heat exchanger can be equipped with integrated heater either before or after the counter flow heat-exchanger. Adding these heater allows you to keep control all year round of the exact temperature of the air brought on the manure belt, and upholds the performances of your birds. In rearing houses additional heaters inside the house are no longer needed, reducing energy costs and improving safety.



# Efficient and **gentle** handling of table eggs

Gentle handling of eggs is the core business of Prinzen for over 30 years. Prinzen started with setting machines for hatching eggs, which are renowned for their highly careful handling of eggs and unsurpassed points down setting.

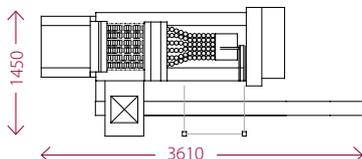
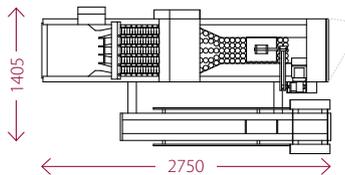
For the table egg market a special range of machines are designed with the keywords: simplicity, compactness and safety in mind. These machines combine careful handling with speed, making the collection of table eggs quick and easy at any size farm.

Quick and easy collection of table eggs

## Our range of table egg packers

We used the extensive knowledge in hatching egg setting machines for the development of top of the line table egg packers for 30 cell plastic and cardboard trays. Semi-automatic packers to fully automated packing lines offer solutions fitting industry requirements. Prinzen packers are designed to provide the highest egg quality throughout the process. Various compact configurations fit into any egg collection room and provide optimal overview of the entire packing process.

All machines are made of stainless steel, together with the excellent service accessibility it makes cleaning quick and easy. Packers are available with a variety of capacities and can be extended with features such as infeed belts, egg coders, tray stackers and automatic pallet loaders.



### Effective capacity

<b>Ovopack</b>	12,000 eggs/hour
<b>PSPC 30</b>	18,000 eggs/hour
<b>Smartpack</b>	30,000 eggs/hour
<b>Speedpack</b>	40,000 eggs/hour



## Vencobelt

Eggs can be transported from different nest rows or houses to a central packing location with the Vencobelt. The belt 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.



## Tray stacker

To further automate the process of egg packing, trays can be stacked with our semi- and fully automatic stackers.

### PS4 Tray stacker

- Fully automatic;
- Capacities up to 40,000 eggs per hour;
- Uniform stacks of six trays;
- Fits any configuration.

### Easystack

- Semi-automatic stacker;
- Capacities up to 18,000 eggs per hour;
- Maximizes the automation of egg packing;
- Compact design.



## Egg coder

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

### Ovoprint

- Inkjet technology;
- Print head adapting to each individual egg height;
- Print field: max. height 4.2 mm / length 25 mm;
- Over 200,000 eggs per ink cartridge, text size depending.

### Ovostamp

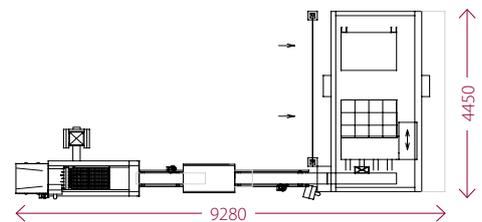
- Gentle code stamping using a flexible rubber head;
- Stamp size of Ø 17mm which fits maximum 3 lines with 17 characters;
- Over 250,000 eggs per stamp.



## Speedpack 110

The Speedpack 110 automatic egg packer handles and packs eggs quickly yet carefully on 30 cell trays. As expected from its name, this table egg packer is named after its speed: 40,000 eggs per hour. Due to the compact design of the machine, you will especially appreciate the complete overview of the entire egg packing process. It allows you to spend more time on checking the quality of the eggs.

The Speedpack 110 provides you the highest capacity per square meter of available footprint in the market. Prinzen's machines are built with high quality materials to ensure a long lifetime. Moreover the Speedpack 110 is an interesting investment related to the low cost of operation and maintenance.

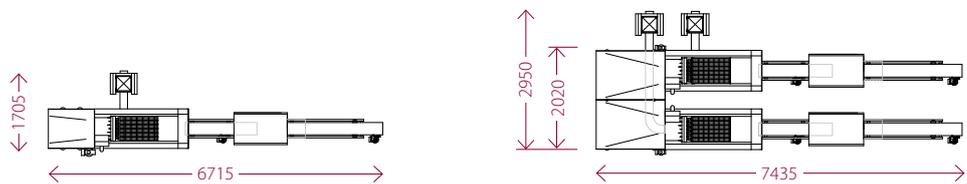


# Speedpack 220

To meet the demand for higher capacities Prinzen offers the Speedpack 220. It reaches the capacity of 80,000 eggs per hour. Several machine configurations are available to match the space in the egg room. In addition automatic supply of 30 cell trays to the packers is available for both denester units. The high level of automation and reliability set the right conditions for a perfect packaging job.

- Compact design and modularity of the individual units;
- Best ratio available in the market: capacity versus required footprint;
- Ensures maximum processing capacity.

	Effective capacity	Installed power	Machine footprint
<b>Speedpack 110</b>	40,000 eggs / hour	1.6 kVA	L x W = 6,715 x 1,705 mm
<b>Speedpack 220</b>	80,000 eggs / hour	3.2 KVA	L x W = 7,435 x 2,950 mm

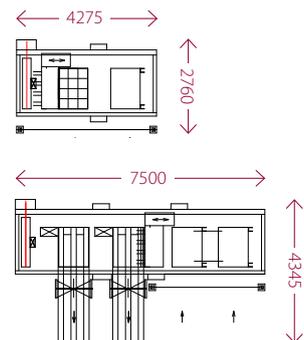


# Pallet Loader

The Pallet Loader completes the egg collecting process, increasing automation even further. The Pallet Loader is fully compatible with the capacity of the Prinzen packing machines. The Pallet Loader is a gantry robot offering safe and high precision of handling.

- Reduce heavy and repetitive manual labour;
- Modular & compact design: fits any egg room.

By combining the Speedpack, PS4 Tray staker and Pallet Loader, Prinzen created a complete packing line with an unequalled speed of 4 egg pallets per hour.



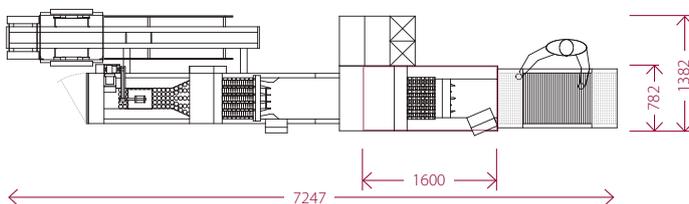


Increase  
the value  
per egg

## Ovograder

The Ovograder is an electronic egg grader for on-farm pre-selecting of table eggs. Grading eggs in specific weight ranges increases uniformity and thus the value per egg. Its capacity of 30,000 eggs per hour ensures perfect inline operating with high capacity egg packing machines. The Ovograder can be configured with the Smartpack or the Speedpack and one or two additional packing machines. This way predefined table egg sizes are automatically collected on 30-cell trays.

Effective capacity	30,000 eggs / hour
Installed power	0.5 kVA
Air requirement	100 N ltr / minute / 8 bar



Quick return  
on investment

## Ovologic

Ovologic has taken egg handling to a new level. The new designed range of trays and pallets ensures fast, safe and efficient handling and transportation of eggs from farm to the grading/packing station or processing industry. Ovologic uses plastic 30-cell trays in combination with custom designed dividers and pallets. The packaging materials allow for thorough cleaning and disinfection after each usage. This greatly reduces hair cracks and the risk of contamination in comparison to traditional paper packaging materials.

The unique design of the Ovologic pallet gives a real packaging advantage. The robust and strong pallet is:

- easy, labour friendly and accurate stacking;
- excellent protection of eggs, no additional pallet wrapping required;
- optimum use of storage and transport space;
- mechanisation equipment available, for fully automatic (de-) palletizing;
- available in a nestable or a box pallet.





# 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 centre for the poultry industry. We strongly believe in open innovation through thinking ahead with poultry people. Your experience is of great value to us and we invite you to come and explore what poultry innovation can offer you. ***Together we bring the poultry sector to the next level.***





## Vencomatic Group

### Visiting address:

Venco Campus  
Meerheide 200  
5521 DW Eersel  
The Netherlands

### Postal address:

Vencomatic Group  
P.O. Box 160  
5520 AD Eersel  
The Netherlands

Phone +31 (0)497 517380  
Fax +31 (0)497 517364  
info@vencomaticgroup.com  
[www.vencomaticgroup.com](http://www.vencomaticgroup.com)

## Agro Supply

### Visiting address:

Venco Campus  
Meerheide 200  
5521 DW Eersel  
The Netherlands

### Postal address:

Agro Supply  
P.O. Box 160  
5520 AD Eersel  
The Netherlands

Phone +31 (0)497 518972  
Fax +31 (0)497 513613  
info@agrosupply.com  
[www.agrosupply.com](http://www.agrosupply.com)

## Prinzen

### Visiting address:

Prinzen  
Weverij 18  
7122 MS Aalten  
The Netherlands

### Postal address:

Prinzen  
P.O. Box 85  
7120 AB Aalten  
The Netherlands

Phone +31 (0)543 490060  
Fax +31 (0)543 476205  
info@prinzen.com  
[www.prinzen.com](http://www.prinzen.com)

## Vencomatic

### Visiting address:

Venco Campus  
Meerheide 200  
5521 DW Eersel  
The Netherlands

### Postal address:

Vencomatic  
P.O. Box 160  
5520 AD Eersel  
The Netherlands

Phone +31 (0)497 517380  
Fax +31 (0)497 517364  
info@vencomatic.com  
[www.vencomatic.com](http://www.vencomatic.com)

### Vencomatic Group France

24 Rue de Saint-Brieuc  
35590 Saint Gilles (Bretagne)  
France  
Phone +33 223 618764  
info@vencomaticgroupfrance.com

### Vencomatic do Brasil Ltda.

Rua Justino Tavares de Toledo 401  
Bairro do Salto, Socorro  
13960-000 São Paulo  
Brazil  
Phone +55 1938553242  
vencomatic@gmail.com

### Vencomatic Ibérica S.L.

Polígono Industrial  
Mas de Les Ànimes  
C/ Guerau de Liost 7  
43206 REUS (Tarragona)  
Spain  
Phone +34 977331908  
info@vencomatic.es

### Vencogroep Asia Sdn Bhd.

No. 29, Jalan Meranti Jaya 12  
Meranti, Jaya Industrial Park  
47120 Puchong  
Selangor  
Malaysia  
Phone +66 86 60 38 100  
info@vencoasia.com

### Venco China (Wuxi) Poultry Equipment & Trade Co., Ltd.

B-608, Wangzhuang Techn. Startup  
Center, Nr.4 Longshan Road, Wuxi  
New District, 214000, Jiangsu Province  
China  
Phone +86 510-85293355  
info@vencochina.com

Your local Vencomatic Group partner: