Think ahead with poultry people

Complete solutions for Breeders
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Think ahead with poultry people

It started more than 30 years ago with one man’s breakthrough development for 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 350 committed employees who serve thousands of customers worldwide. Our poultry professionals know what it takes to run a successful breeder farm. And we happily share this knowledge to help you make your 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.”

*Wim Peters - Breeder specialist Vencomatic Group*
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 Vencomatic nest, designed using smart innovations like the Vencomat, tipping floor and egg belt.

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 laying.

We offer different types of nests:
- The robust Classic Nest;
- The spacious Grando Nest;
- The winchable Grando Condor.

The Grando Nest is a more spacious nest compared to the Classic Nest and more hygienic because of its high quality plastics. The Grando Condor is a winchable nest system, especially suitable for hot, severe climate conditions.
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.

<table>
<thead>
<tr>
<th></th>
<th>Classic Nest</th>
<th>Grando Nest</th>
<th>Grando Condor</th>
</tr>
</thead>
<tbody>
<tr>
<td>Egg belt</td>
<td>center belt</td>
<td>center belt</td>
<td>center belt</td>
</tr>
<tr>
<td></td>
<td>2 x 250 mm</td>
<td>2 x 250 mm</td>
<td>1 x 250 mm</td>
</tr>
<tr>
<td>Number of tiers</td>
<td>1 or 2 tiers</td>
<td>1 tier</td>
<td>1 tier</td>
</tr>
<tr>
<td>Type</td>
<td>single or double</td>
<td>single or double</td>
<td>double</td>
</tr>
</tbody>
</table>
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.
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 m² 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.
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.

Vencobelt

Transporting eggs from different nest rows or houses to a central on-farm location needs to be done with outmost care. It is of great importance that eggs are protected on their journey. The Vencobelt offers perfect egg guidance. Its plastic carriers provide soft egg handling and through its open structure these are easy to clean and minimize contamination. The smart design of the carriers and smooth connections of the belt allow slopes up to 35 degrees and small radius corners. Furthermore only one drive chain is integrated making the belt flexible in its application.

- Crack free egg transport;
- Optimum flexibility;
- Maximum hygiene;
- Available in widths 40 and 55 cm;
- Corners up to 180 degrees;
- Compact corners due to single drive chain.

<table>
<thead>
<tr>
<th>Vencobelt 40</th>
<th>Vencobelt 55</th>
</tr>
</thead>
<tbody>
<tr>
<td>Capacity</td>
<td>37,600 eggs / hour</td>
</tr>
<tr>
<td>Maximum slope</td>
<td>28 °</td>
</tr>
<tr>
<td>90° corner dimensions</td>
<td>1.0 x 1.0 m</td>
</tr>
</tbody>
</table>
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 emissions of ammonia and fine dust.
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 CO₂.

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.
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.

<table>
<thead>
<tr>
<th></th>
<th>Capacity</th>
<th>Parallel matrix trays</th>
<th>Offset matrix trays</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ovoset</td>
<td>12,000 eggs / hour</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>PSPC5</td>
<td>18,000 eggs / hour</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>PSPC7</td>
<td>21,000 eggs / hour</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Ovoset Pro</td>
<td>30,000 eggs / hour</td>
<td>X</td>
<td>X</td>
</tr>
</tbody>
</table>

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. Prinzen’s 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.

<table>
<thead>
<tr>
<th>Capacity</th>
<th>Weight classes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ovograde 20</td>
<td>30,000 eggs / hour</td>
</tr>
<tr>
<td>Ovograde 30</td>
<td>30,000 eggs / hour</td>
</tr>
</tbody>
</table>

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.