Broiler Breeders
Leadership through Innovation

Absolute customer delight
ROXELL, is the worldwide leader in automatic feeding, drinking, nesting, ventilation and heating systems for the poultry and pig industry.

Our success and reputation are based on our distinctive and innovative products, a sound investment policy with the talent and dedication of our 300 employees and more than 150 distributors worldwide. Roxell systems are world-renowned for their excellent durability, performance and production results.

We are one of the most modern and best-equipped manufacturers in the industry. An excellently maintained production facility with state-of-the-art machinery and a flexible logistics structure guarantees consistent transformation of raw materials into advanced, high-quality systems. That is how we are able to handle any project, large or small, with the same superlative care, and deliver it accurately anywhere in the world.

Our head office is located in Maldegem (Belgium) and we also maintain production and warehouse facilities in Shah Alam (Malaysia), Anderson, Missouri (USA) and an office in Moscow (Russia).

ROXELL BVBA is a subsidiary of CTB, Inc.

CTB, Inc. is a leading global designer, manufacturer and marketer of systems and solutions for the poultry, pig, eggs and grain sector.

We constantly encourage our staff to work towards this goal.

We invest in education and tools that allow our people to continually develop in their own fields of expertise. In this way, we combine vitality with experience and new insights allowing Roxell to stay perpetually young.
ROXELL has designed and developed a unique oval pan for broiler breeders. This patented design maximizes the results of your flock during the rearing and production periods.

**Optimal use of your floor space**
The unique oval pan can hold up to 15 birds per pan which allows you to place up to 60 animals per 3 meters or 10 feet of feeding length.

**Fast, uniform feed distribution**
- The high capacity auger and unique patented pan design provide fast and even feed distribution on every circuit.
- The auger fills every pan in the house simultaneously within a few seconds with equal portions, which gives each bird the same feeding opportunity.

**Maximum feed savings**
- The Vitoo™ and KiXoo® pan design, with inner and outer pans, prevents feed waste. The outer pan catches the feed from the inner pan allowing all feed to be eaten by the birds.
- The special stepped Boozzer™ pan with ten individual feeding trays prevents selective pecking and feed waste.

**Durable and easy maintenance**
- The pan parts are in durable UV-stabilized plastics, which resist all commonly used cleaning agents and detergents.
- A solid hinge allows easy, thorough cleaning, without removing the pans.
- There is a degressive 10 year warranty on the complete pan.
- No corner wheels or parts susceptible to wear.
- Circuits can be winched up for easy, thorough cleaning.
- Daily winching will also increase flock fertility and limit the number of floor eggs.
Our solutions for the rearing period

**Automatic feeding and easy start from day one**
The unique inner cone guarantees flooded pans during the early days of rearing. Young birds find the feed immediately on entering the house. The low pan and wide grill openings offer day-olds easy access to the feed, without the need for manual feeding. After a few days birds already line up around the pan to eat.

**Partial brooding and easy management**
In order to save heating costs, the system allows a brooding area to be created by closing the pans outside it. A shut-off slide makes partial brooding possible.

**Uniformity in feed distribution**
**Fast, excellent and efficient**
The Vitoo™ pan distributes small feed portions within a few seconds. Daily automatic feeding can start from 35 g or 1.24 ounces of feed per bird per day, avoiding the need to skip a day as a management system.

**Maximize uniformity**
The distribution of daily feed portions is based on the bird group weight. By managing the feed level setting for each bird group you can control the eating behavior of the birds.
Our solutions for the production period

**KiXoo**

**Separate feeding for hens and cockerels**
The internal grill is adjustable for width (using the handy adjuster knob) and for height, to suit the age of the flock. This prevents cockerels, regardless of age or breed, from stealing feed from the hens.

**Daily winching to improve fertility**
By winching the system up after eating, the birds will have more free space and easier access to the nest.

**Day old to death**
You can use KiXoo® day old to death from the first day onwards. Special feed windows automatically provide a high feed level during the early days.

**Boozzter**

**Comfortable eating for males only**
The wide grill openings offer cockerels with fully-grown combs easy and comfortable access to the feed.

For optimal system performance, keep 10 cockerels per pan for the whole flock, especially after culling and spiking.

**Bridomat**

**Separate sex feeding**
The unique, adjustable roller tube or a FIXGRILL™ prevents cockerels from eating together with the hens.

**Unique feed management**
The special trough shape minimizes feed waste. A high transport capacity (30 m per minute - 98,5 f/m) prevents birds from eating during feed distribution and divides the trough into thousands of small feed compartments, preventing selective eating.
Drinking systems

Our drinking systems always provide fresh clean water to all birds. The reusable disc filter on the water panel keeps the water quality high and prevents the formation of a biofilm. The design of our drinking systems keeps your litter in optimal condition.

The unique bird-friendly SPINsoft anti-roosting device eliminates the use of electro-guards, improving animal welfare.

All parts are made of strong, durable materials resistant to all commonly used cleaning products and forceful flushing.
A nipple drinking system
• Swii’Flo™ includes a whole range of plastic and metal nipples.

Optimal hygiene
• The double-sealed nipples and the carefully designed breather unit prevent leakage, thus keeping the litter in optimal condition.
• The system provides easy, thorough flushing and precise administration of vaccines or medications using the exclusive Roxell flush controller.

Bird-friendly design
• The one-armed drip cup offers the birds plenty of room to reach the nipple.
• All Swii’Flo™ parts are designed to minimize any risk of bird injury.

Fast growth from day one
• Float balls keep cups filled with water during the starting period.
• High flow rate: 500-600 ml/min - 16.9-20.3 fluid/ounces.

Excellent hygiene, easy to maintain
• Full straight-through flushing concept
• Self-cleaning cups

Better management of the flock
• Cups can easily be switched.
• Full freedom of movement for hens to use the nest and minimize floor eggs.
Nesting systems

Superior egg quality
Superior comfort and animal-welfare

- The spacious, oxygen-rich nest box guarantees maximum nest acceptance by broiler breeders.
- The perforated AstroTurf nest pads optimize air circulation and give the hens a natural feeling.
- A protected solid wood nest entrance avoids leg and breast injuries.
- There is no accumulation of droppings at the nest entrance.

Careful egg handling

- The AstroTurf nest pads prevent cracks and soiled eggs.
- The perforations in the egg belt keep the eggs from rolling and bumping into each other and optimize the temperatures in the egg channel.
- A smooth open transition between the egg belt and the cross conveyor or collecting table avoids hair cracks and removes any dirt, droppings or feathers.

Bird-friendly expulsion system

- Expulsion with movable back for broiler breeders.

Reduced floor and slat eggs

- Ease of entry to the nest is provided by the natural step-up slat incorporated on the egg tray cover.
- Large open nest top allows easy entrance to the nest.
- Moving egg belt is not visible.
- Ventilated nest side holes for comfort.
- Two nest hole widths are available: 24 or 30 cm (9.5 or 12 inches), providing flexibility in matching hole size to bird size for increased bird comfort.

Automated Lid-Closing System

- Permits scheduled operation of nest lids for cleaner nest bottoms and cleaner eggs.
- Winch manually or use a whole house control.

2 types available:
Side-belt nests & Center-belt nests

- Shenandoah’s Side-Belt Egg Gathering Systems
  - Tops are hinged to facilitate training the hens not to roost in the nests.
  - In the event of a power outage, egg trays are hinged for easy opening to allow eggs to be hand gathered.
- Center-belt nests share all features in common with Side-Belt Nests, except only Side-Belt Nests have the Automated Lid Closing System, hinged egg trays.
  - Open-top nest design with closeable lid for training the hens.
  - Built-in perch provides natural step entry into the nest.

Shenandoah® Clean Sweep Side- & Center-belt table

- Adjustable belt speed to 13.7 meters per minute (45 feet per minute) 110/240 VAC 50/60 Hz.
- DC gear motor and electronic control offer quiet, vibration-free operation.
- Egg flow to the table is controlled by a run/pause toggle switch and belt speed adjustment knob.
**ROXELL** offers a complete line of heating products that can complement virtually all types and styles of house design, supplying state-of-the-art solutions for efficient, durable heating systems that are easy to use and maintain, providing superior results.

**Optimal use of your floor space**
Be it rugged and reliable space heating or the latest IR (infrared) style heating systems, Roxell has you covered with more evenly heated, useable floor space, allowing optimal productivity of your facility and superior bird growth performance.

**Superior performance, efficiency and flexibility**
- Industry leading heat conversion of fuel consumed provides more even heat, where you want it.
- Choose either whole house heating from traditional space heaters to specific and adjustable heating of IR brooders or our high performance “Quadrangular” heating from the famous Quad-Glow heating system.

**Rugged and reliable**
- All Roxell heaters are made from heavy gauge stainless steel, galvanized steel and aluminum, providing many years of superior service in agricultural conditions.
- Only the best components are utilized for gas control, ignition and operation providing reliable performance, as designed, in every product we make.

**Straightforward design and easy to maintain**
- Simplicity is built into every product with the user in mind, like fewer fasteners and components to give you less headaches.
- Open design that makes it easy to perform inspection or maintenance.

**Multiple options for mounting, controls and fuel ignition**
- Permanent mounting, single point mounting, winchable mounting are all methods available for installing your Roxell heaters.
- Multiple control systems including; pilot ignition, hot surface ignition, electronic direct spark ignition, electric zone control valves, low and high pressure valves, thermostatic controls, or sensor controls are some of the many methods of specifically tailoring your new Roxell heater to your exact need, giving you the best performance available anywhere.
Brooders

**Shen-Beam**

**Strong IR Performance**
- Large emitter surface area - greater IR heat.
- Unique burner cap design - for even fuel/air mixture.
- Full 360 degree heat dispersion mated to a specifically designed reflector canopy - Maximize IR output.
- Delivers 11.72 KwH / 12.31 KwH (40 000 BTU’s / 42 000 BTU’s) of infrared heat.

**Cost competitive**
- Allows you to make that heater upgrade to IR power possible.
- Performance to cost - no need to sacrifice performance while saving money.

**Shen-Beam**

- The Shen-Beam is a small infrared brooder.
- It heats an average of 23 to 37 square meters (250 to 400 square feet) and delivers 6.74 KwH / 7.33 KwH (23 000 BTU’s / 25 000 BTU’s) of infrared heat.
- Efficient, reliable mid-range heater.

**Shen-Glow**

- The Shen-Glow brooder features a unique inner burn chamber with an insulated inner cone to provide an inner reflective surface and a specially designed emitter screen that envelops the inner cone to produce a highly efficient combustion process and significant infrared radiation.
- This large infrared brooder heats an average of 74.3 to 92.9 square meters (800 to 1000 square feet) and deliver 11.72 KwH / 12.31 KwH (40 000 BTU’s / 42 000 BTU’s) of infrared heat.

**QuadRadiant heaters**

**Quad-Glow**

- High efficiency: deliver 80 000 BTU’s of infrared heat, while using less fuel to heat the same area.
- Uniform heat pattern: the special shape of the Quad-Glow® heater reflects heat in a wide pattern 9 x 12 to 12 x 18 square meters (30 x 40 feet to 40 x 60 feet).
- Easy to install and maintain. Heaters are pre-assembled, include power cords and gas hoses, and are ready to hang, reducing installation labor costs.
- Robust and flexible for various house widths.
- CE-approved version.

**Space heaters**

**Shen-Turbo 250**

- High output convection heating.
- Heats an average of 232 to 409 square meters (2500 to 4400 square feet) per heater.
- Delivers 65.94 KwH / 73.27 KwH (225 000 / 250 000 BTU’s) of heat.
- High-performance cast-iron burner provides efficient combustion and maximum fuel efficiency. Multiple ignition and fuel source options.
Wide range of weighers

- The mechanical batch weigher is:
  - economical
  - easy to manage and maintain
  - and has a high capacity

- The electronic batch weigher is:
  - accurate,
  - an excellent solution for blending feed types
  - easy to manage and maintain

- The day-bin weigher is:
  - economical
  - accurate
  - combines buffer and weigher in one system

There is also an optional feed screener to remove foreign bodies from the feed.

Correct, reliable and safe

- Our central control panel allows you to control your feed and weighing systems optimally.
- We supply high quality electric hardware.
Transport systems

**Flex-Augur**

*Wide range of capacities and features*

- The Flex-Augur guarantees safe transport of different kinds of feed (pellets, mash, home mixed rations, etc.).
- We offer a wide range of capacities from 500 to 5400 kg - 1100 to 11900 lbs per hour. And different kind of diameter of inches.
- A unique Circulating Distribution System (CDS) for broiler cage applications.

**Flex-Augur overhead**

- Increase the bio-security level
  The Flex Auger overhead keeps feed trucks away from the clean area to avoid potential transfer of infection.
- Flexible solution for all site layouts

**Durable system**

- The auger has a 10-year warranty (degressive).
- UV, temperature and wear resistant NOVICOR tubes and elbows for mash/pellet feed type high quality metal tubes and elbows for abrasive feed types.
Feed bins

**Excellent feed flow**
- Obstruction-free hopper plates with smooth protective internal coating.

**Wide range of capacities and features**
- Four different diameters with volumes from 3.9 m³ to 49.8 m³.
- Unique range of day bins from 0.5 m³ to 2.5 m³
- Bins for pneumatic or mechanical filling.

**Options available**
- Safety platform.
- Solid construction. It complies with the German DIN standard (DIN18914).

**Keeps feed fresh and nutritious**
- Heavy galvanization and corrugated sheets reduce temperature fluctuations inside the bin.

**Durable and maintenance friendly**
- Encapsulated external bolts to prevent corrosion.
- 5 year warranty against perforation by corrosion!
- Environmentally friendly – material can be recycled after use.
Roxell Concept
Visit www.roxell.com for further technical specifications of our systems.

Rearing

Production
European style

US style
Our customers

Brazil

“199.15 eggs/hen housed, this is the result of our broiler breeder concept”

Granja Real LTDA started to fit out its broiler breeder houses in Brazil. The flock size is 32,948 Cobb Slow birds.

“By choosing Roxell feeding systems for my breeder concept, I have chosen the world’s most innovative technologies for rearing pullets and fertile egg production.

We are using the Vtoo pan for rearing and the Kixoo pan during production. The design of these unique feeding systems is based on animal behavior. In this way we can improve the uniformity and liveability rate (98.02%) of the birds during the rearing period and achieve excellent results in production with 199.15 eggs/hen from the flock that was housed on 13/03/2013.”

France

At the end of March 2014, farmer Serge Ghillebaert set up a broiler breeder farm at Steenvoorde in French Flanders, fulfilling the dream of his wife Séverine who wanted to move into farming.

Their first flock consisted of 8,500 hens and 1,000 cockerels.

The new house is 15 m by 75 m, equipped top to bottom with Roxell equipment: a central community nest (Koozii) with 2.4 m slats, two Sparkcup drinking lines, three KiXoo pan feeding circuits for 8,500 hens and two Boozzter pan feeding lines for 1,000 cockerels.

Serge Ghillebaert soon became a Roxell ambassador:

“Equip Elevage, an authorised Roxell distributor, helped us find the modern Roxell systems which give each bird ready access to the feed in the pans at the same moment, without spillage and with outstanding results from our first flock. Peak of egg production of 90%, with an average of 80% over 14 weeks and only 1.4% floor eggs.”

And that’s how Serge and Séverine’s poultry business got off to a flying start.