

BETTER RETURN PROGRAM +  
Better poultry house design



POULTRY

Your Animal Experts!



「 Make Your Poultry Farm Better 」

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# Company Introduction

Your Animal Experts!

Quality Management System: ISO 9001: 2008

The Manufacturer is the most modern fleet of machines and systems for the production of innovative highly technical equipment for the poultry industry.



# Company Introduction

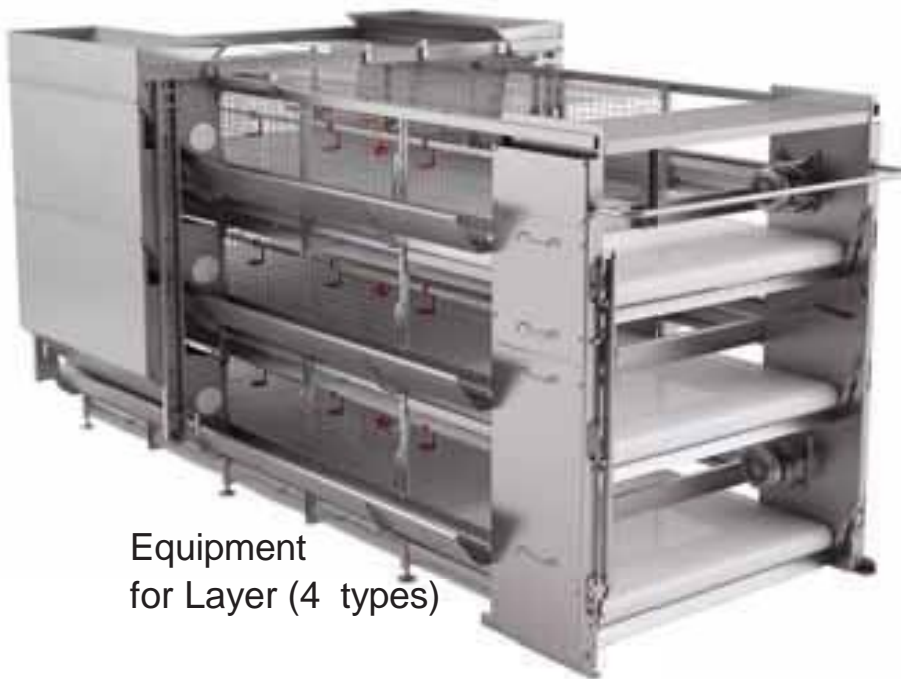
## Work Shop



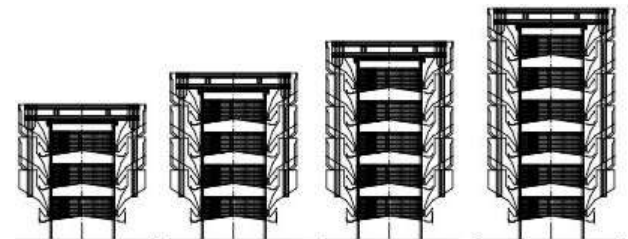
# Cage System



## Layer Cage



Equipment  
for Layer (4 types)



H-Type 3- 6 Tiers

Laying hens keeping is one of the leading areas of the poultry. To maximize the productivity comfortable living conditions shall be ensured to the poultry. Such conditions include not only high-quality food, and an optimum microclimate, but also hi-tech cage equipment.

Selection of equipment depends on the following:

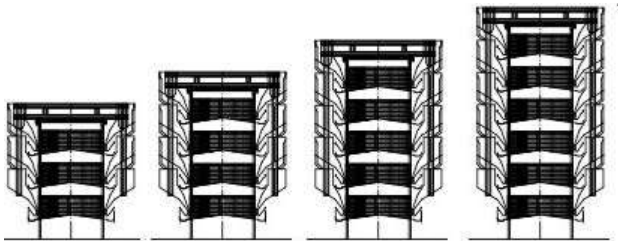
- required poultry population
- technologies of housing systems
- climate conditions
- of selected breeding cross.



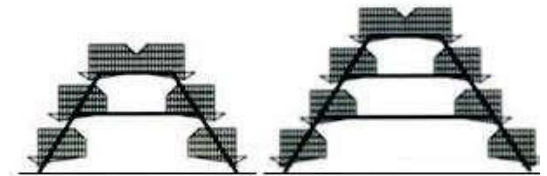
# Cage System



## Broiler Cage



H-Type 3- 6 Tiers



H-Type 3-4 Tiers

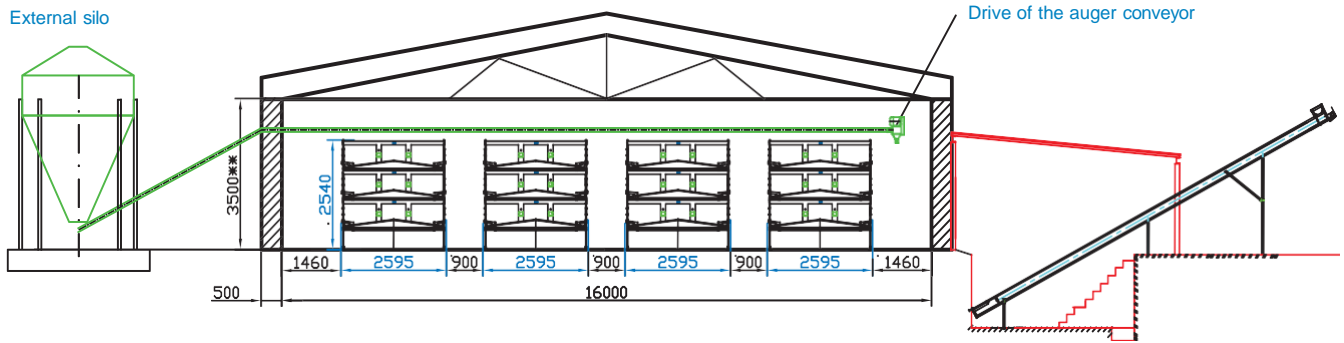


Equipment for pullets and broiler chickens (3 types)



# Cage System

## Typical project of cage poultry house





# Flooring Type for Broiler



We specially designed equipment for poultry farms applying floor technology for broiler chicken. It takes into account the latest developments and achievements in the field poultry keeping.



A special element of feeding system for floor keeping is Manufacturer's feeder. This unique product of the company offers operational flexibility and reliability. Three adjusting feeder systems allow changing the level and volume of feed when needed.

Movable floor allows adjusting the depth of the trough. By setting a minimum depth, you will provide the chicken with a free access to feed from the first days of its life. With its growth the feed line changes and the depth of the trough is adjusted, and it means provision of enough food and reducing its loss in result of scattering.



## Advantages of feeding systems for floor keeping:

Feeding pipe is made of 2 mm zinked thick steel

Screw pin is made of spring steel of high quality

Rolled pipes with rolling for a reliable connection, 3.05 m of pipe per 3-4 feeders

Automatic filling of feeders with the option of programmable feeding





# Drinking System



## Benefits of drinking system:

Use of food materials and the lack of adhesive joints maintain high water quality;  
Drinkers are installed in a plastic tube with square section using special equipment at the factory, thus ensuring tightness of connections and high assembly quality;

Several types of nipple drinkers and medicators to install in the drinking system as option; package includes: filters, water meters, medicators, shut-off valves, pressure gauges. Installation of water pressure regulators upon request.



# Drinking System



## For laying hens

Two adjacent cages are equipped with 3 nipple vertical drinkers with capacity of 50 ml/min; Drop catching trough below every drinking line prevents from water dropping to the litter disposal belt.



## For broiler chickens

Depending on the type of equipment a cage is equipped with one or two height adjustable drinking lines with 3 nipples per each; Nipples have three degrees of rotation (360°) and a capacity of 80ml/min.



## For pullets and broiler chickens - JUNIOR

A cage is equipped with one height adjustable drinking line with 3 nipples; Nipples have three degrees of rotation (360°) and a capacity of 80ml/min.



## For breeders management (hens and roosters)

Every cage is equipped with 2 drinking lines, located on different levels, with 6 vertical nipple drinkers with capacity of 50 ml/min with a V-shaped drop catchers



## Floor equipment

Lines are equipped with anti-perch cable; Pin rotates by 360°, allowing the required amount of water for birds of various ages.

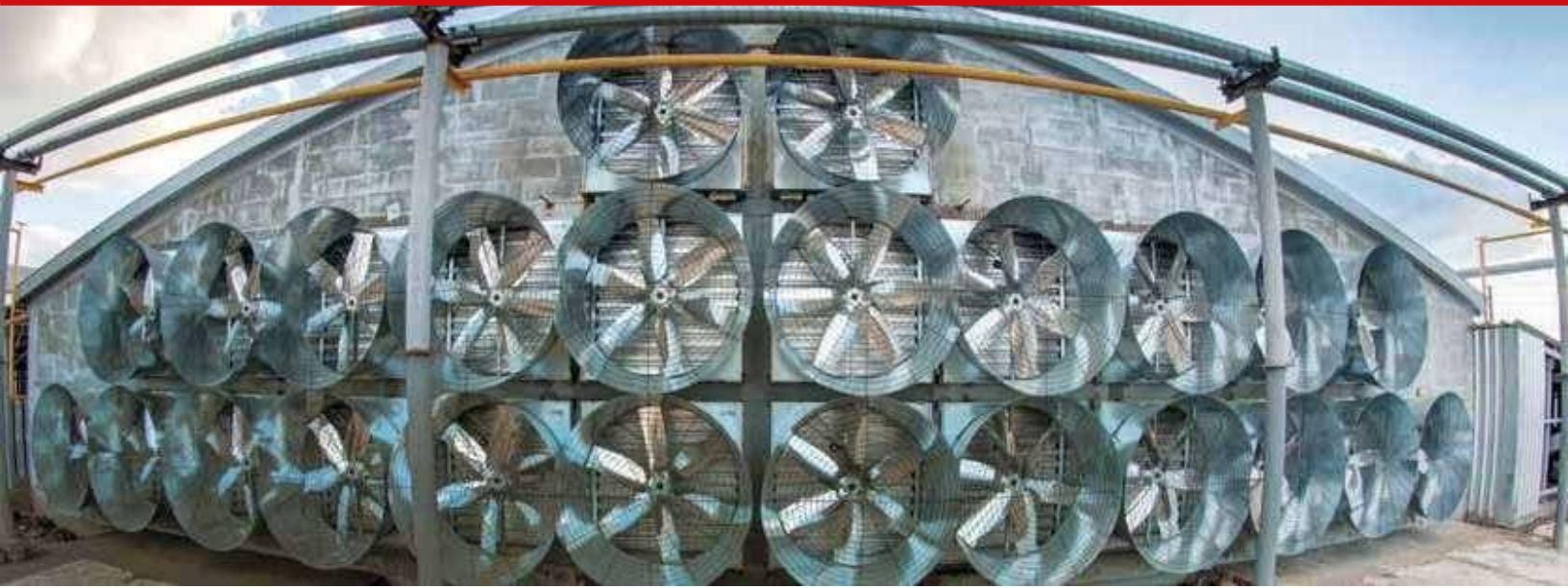


## Alternative system

Drinking line is equipped with 4 vertical nipple drinkers with capacity of 50ml/min with drop catchers



# Environmental System



We prepare a unique project per every poultry house, considering all parameters of the building, geographical location and natural climatic conditions.

**Creation of a favorable climate for poultry keeping is the most important condition for a high quality and highly productive poultry house.**

# 4

microclimate system components are used in various combinations depending on the specific conditions - cross. building parameters, and climate.



**Humidification/cooling**  
System of humidity regulation and natural air-conditioning



**Heating**  
Poultry house heating system



**Ventilation**  
Fresh air supply system



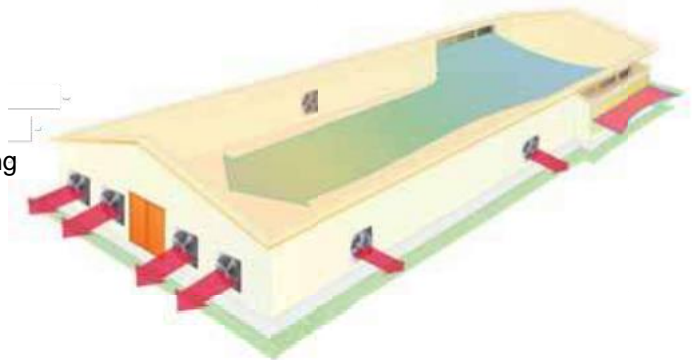
**Automation**  
Automatic maintenance of an optimum microclimate

## Cooling Pad

are designed taking into consideration the innovative technology in order to achieve maximum efficiency of humidification and cooling under any climate and operating conditions.



Cooling Pads are made of cellulose paper with cell structure and are thoroughly resin-treated (odorless). Considered together, these factors allow achievement of a high rate of water absorption while holding the shape.



This special celled shape of paper stripes intersecting at an angle with symmetrical airflow can achieve significant cooling results with minimal pressure reduction.

# Environmental System

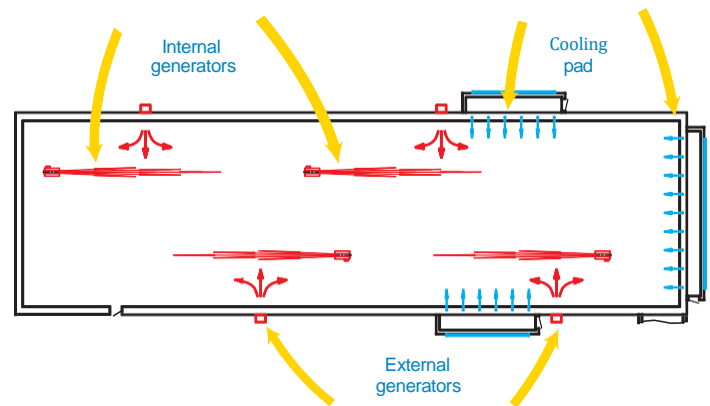
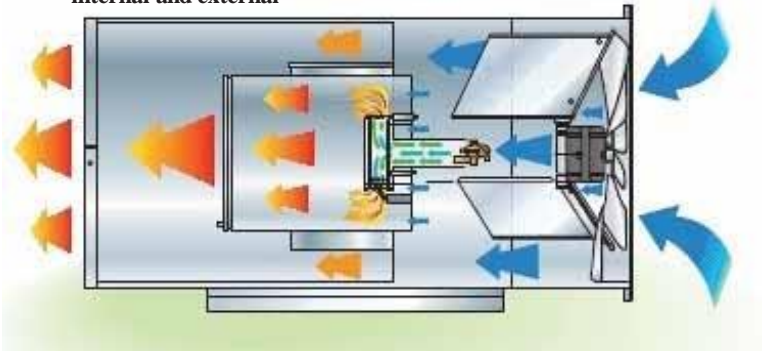
## Heating

The optimum temperature range is especially important during the bird breeding in order to achieve a high level of its productivity.

To ensure efficient heating of a premise with minimal costs we offer heaters of direct heating, using natural and condensed gas, or diesel fuel.



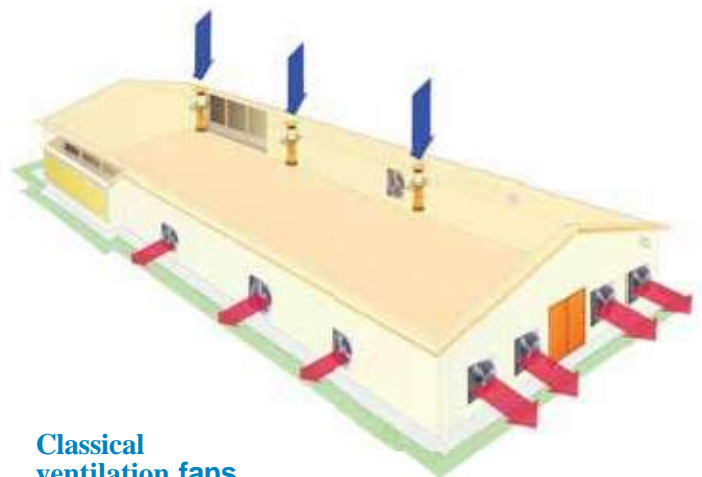
Heating in the poultry house can be internal and external



## Ventilation

Satisfactory air quality is one of the prerequisites for the birds' health and its productivity.

We offer several options for ventilation of the poultry house, selection of which may be defined by the climate conditions, construction of production facilities, as well as the customer's preferences.



Classical ventilation fans

Exhaust fans with capacity of 10,000m<sup>3</sup>/h are located in the side walls and induction holes are located in the roof of building. Management of both holes and group of fans - is provided by the climate control computer.



# Feeding System



## Advantages of Backpack feeding system:

The backpack system is used within equipment for laying hens, parent flock, rearing and broiler chickens - JUNIOR.

Simultaneous food distribution for all or separate lines of the battery

Dispensers evenly distribute the feed in troughs, which makes it possible to control the rate of chicken feed consumption.

Design of feed tray eliminates the appearance of "stagnant" zones

Feed tray of 0.7 mm thick galvanized steel of special shape increases the rigidity of the cage battery design

Necked-in rim of feed tray prevents from feed scattering.





# Feeding System



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# Feeding System

## Drinking Accessories



## Auger



## Chick Cutting Equipment



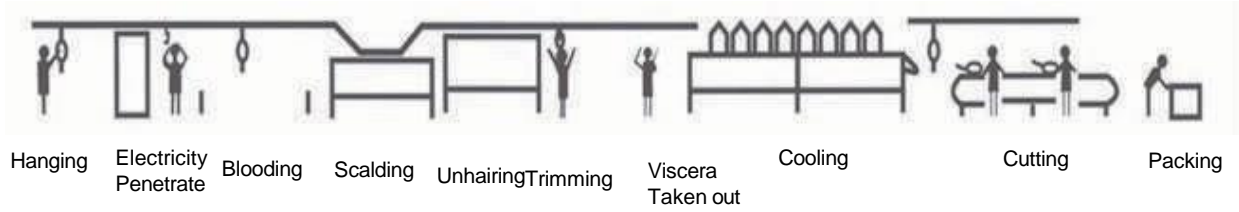
## Silo Tower



	Capacity (ton)	Diameter (m)	Height (m)	Stand Bar (m)
SM 801	3	1.8	4.4	4
SM 802	5-6	1.8	5.2	4
SM 803	7-8	2.8	4.8	6
SM 804	10	2.8	5.2	6
SM 805	12	2.8	6.1	6
SM 806	15	3.68	6.1	8
SM 807	20-22	3.68	7.4	8

# Slaughter Equipment

## Slaughtering Line

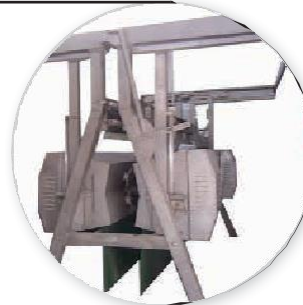


Electricity Penetrate

Bleeding

Scalding

Unhairing



Viscera Taken out

Cooling

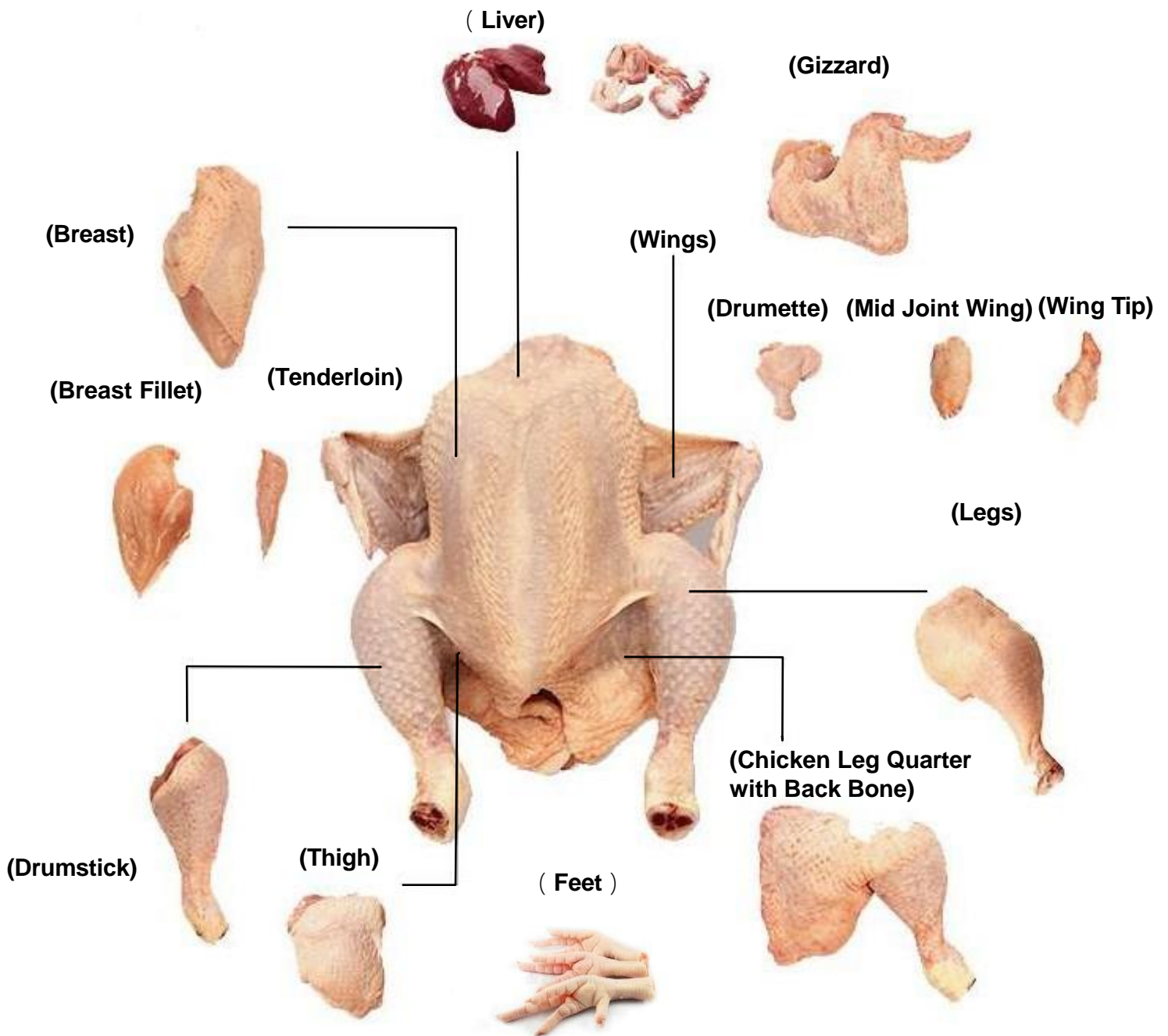
Cutting

Packing



# Slaughter Equipment

## CHICKEN PARTS



# Egg Collection System



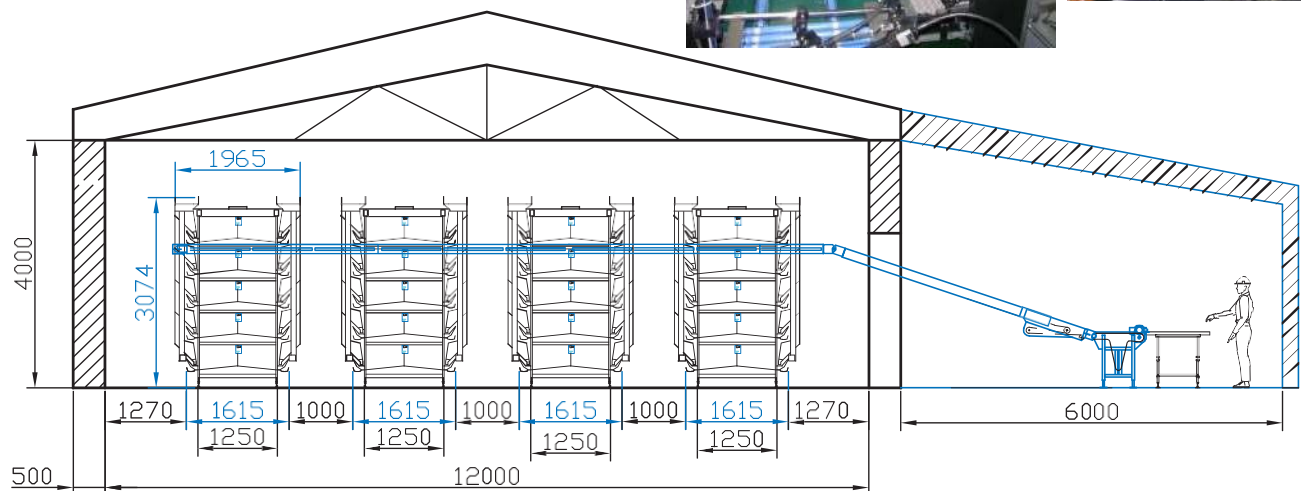
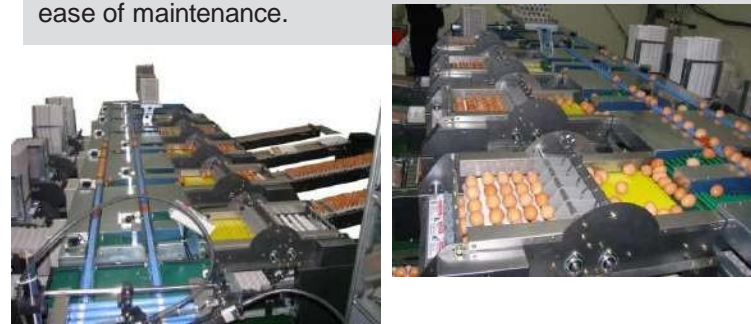
The cage equipment for laying hens can be equipped with lift or elevator egg collection system.

## Lift egg collection system

allows collecting eggs simultaneously from all tiers of batteries, from each tier in turn.

## Advantages of our egg collection systems:

- reduction in labour costs in the eggs collection and sorting; minimizing the production of substandard eggs (broken, with notches, contaminated);
- ease of maintenance.





# Lighting System



The lighting system is based on the global poultry innovations:



energy saving technologies reduce power consumption by 4-5 times;

system provides a smooth "sunrise/sunset", which eliminates the stress of the birds;

use of lamps with various light emission and temperature makes lighting in the poultry house natural to the maximum;

use of special light modes can reduce the emotional discomfort of the bird during production operations.

Basic configuration of cage equipment for broiler chickens includes LED lighting system.

# Automation System



We develop and implement automation of all processes of the poultry house - feeding, watering, lighting, litter disposal, egg collection.

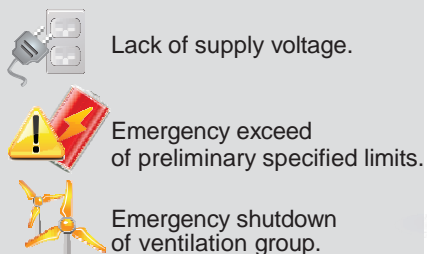
Degree of automation can differ depending on customer's needs.

System allows controlling of:



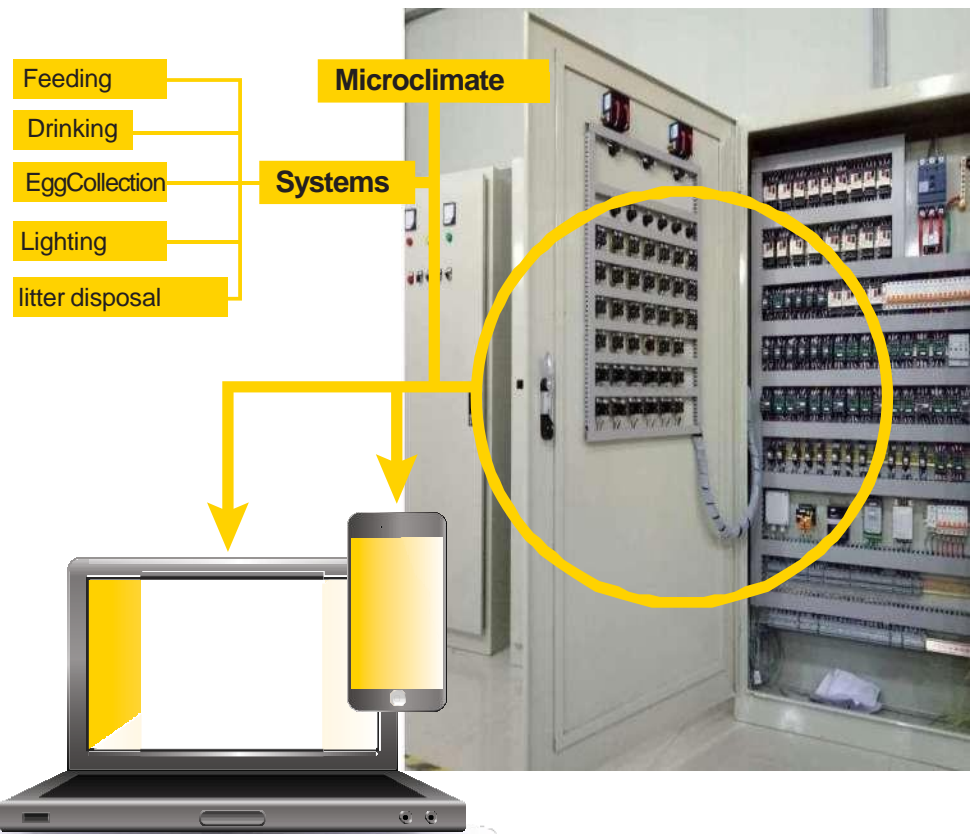
Automation system enables recording of emergencies: computer stores records about up to 250 cases. Alarms are provided with self-contained power supply.

When is alarm triggered?



Dispatching is organized through communication protocol at software installation, enabling remote monitoring and process control in each of your poultry houses.

Wireless connection is also possible.





# Poultry Litter Disposal System



**Litter disposal system in the cage equipment for broiler chickens includes:**

- » Polypropylene tape of own production
- » Drive and tension units
- » Transverse and inclined conveyors

**Advantages of litter disposal system**

belt is made of high quality polypropylene of 1 mm thickness;

tape is cleaned with a scraper of wear resistant material on the outside and screw-shaped shaft - on the inside;

disposal of litter is operated with electric motors at all tiers simultaneously (1 motor per 5 levels);

moisture of removed litter does not exceed 65%.

## **Tank type aerobic fermentation machine :**

•During the aerobic fermentation process, the organic materials produce ammonia gas, which is harmful for the environment, while, after well-composing, the ammonia gas is biologically removed and deodorized . The main material of chicken manure is organic matter that can raise the organic content in soil.

After fully decomposing by aerobic fermentation machine, chicken manure will be considered as high quality base fertilizer for grow crops or as fertilizer applied at winter for fruit plants throughout the year.





# Automatic Hatchery System



## HatchCare Automation

### Improving animal welfare

- ✓ Live embryo transfer
- ✓ In-ovo vaccination
- ✓ Stress-free chick processing

Our intelligent automation process to match the philosophy of HatchCare: creating a stress-free environment for optimal chick growth. This newly developed automation, combined with the new HatchCare trays and baskets, creates unique synergy in animal-friendly production. The result: **improved chick quality, lower mortality rates and reduction in antibiotics use.**





# Steel Structure



**Steel structure** is made from organized combination of structural steel members designed to carry loads and provide adequate rigidity. The members of the steel structures are made of steel and are joined by welding, riveting or bolting. These structures are reliable and require less material than other types of structures due to the high strength of steel which are distinguished by the diversity of their shapes and their architectural expressiveness.



# Project Cases





