Poultry equipment
Dear friends!

We have arranged own production of equipment for the poultry industry to be able to offer you the best solutions for poultry farming.

Our current work is aimed to ensure industrial and economic success for your poultry enterprise. We offer comprehensive solutions and ensure their quality and operation reliability.

Within production of equipment we introduce the world science and technology achievements in the area of breeding and keeping of industrial poultry flocks.

In response to development trends of the poultry industry, we develop and launch products meeting the legal requirements of different countries around the world.

Our distinguishing feature is a provision of a full package of services - from initial advice on the design and construction of the poultry house till the after-sales service and technological support for the entire period of operation of our equipment.
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Our company is one of the world’s market leaders in poultry equipment production. World poultry farming is developing rapidly in response to population growth, which, in turn, gives rise to a number of tasks involving related industries. Solution of certain issues involves the manufacturers of professional equipment for industrial poultry farming. After all, the equipment plays an irreplaceable role in enhancing the productivity and profitability of poultry farms.

The primary objective of TEXHA is to maximize the efficiency and profitability of poultry farming through high-tech and innovative equipment.

Focus on innovation, development and introduction of new technological solutions, mobility and priority of customers’ needs allow TEXHA constantly keeping the leadership position. Our main competitive advantage is a consistently high quality of product and unique services. Installation of equipment, supervision of assembly and commissioning of facilities, full warranty and post-warranty service, comprehensive technological support of production of the customer are the integral parts of the company’s business relationship with the customer.

Innovative solutions of TEXHA Company are regularly represented in the market. Design office is developing new technologies, and, due to the capacities of own plant, implements them after preliminary testing on its own experimental site. Every new solution is a response to customer’s requests, solving a specific business problem.
PRODUCTION

TEXHA plant is located on the territory of 9 hectares, with 12 th m of production and warehouse premises.

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

Production capacities of the company include: robotic welding line "EYG", welded mesh production line "CLIFFORD", extrusion equipment "DALAKER", laser cutting complex "PRIMA POWER", bending machine "ACL", coordinate notcher "FINN-POWER XS", wire binding machine "SIMCO", cataphoretic painting line "IDEAL-LINE".

We use electrolytic painting (cataphoresis) for creating a reliable protection against floor corrosion of cage equipment. Modern plant laboratory allows controlling the quality of input raw materials as well as finished products. Laboratory equipment, including salt spray chamber, breaking machine, etc., makes it possible to conduct research to improve the quality of products, its resistance to aggressive environments and strength to mechanical damage.
We are always one step ahead!

Technologies are constantly changing; their modification and update are an indispensable condition for the constant development of production and successful promotion of the production company. All efforts and resources are used by TEXHA to improve and enhance the quality of products, development and introduction of innovative technologies.

Consumer confidence is one of the main TEXHA’s priorities

Quality management system
ISO 9001:2008

Quality management system has been implemented by the company in accordance with ISO 9001:2008 international standards; it not only guarantees the reliability and quality of our company, but also provides a continuous production of high-quality equipment. Quality is the key to success! Exactly this principle allows us operating successfully in the markets of many countries. TEXHA adheres to a common policy in the field of product quality management.
Rewards and acknowledgments

Products of TEXHA are the winners of many international awards. Produced equipment is fully consistent with the stated high quality standards, which, in turn, is also publicly recognized by professionals.
SOLUTIONS FOR LEADERS IN POULTRY

SERVICES

TEXHA offers to its customers not only equipment, but also a complex of high-tech solutions for the automation of all kinds of poultry life support service systems and complete technological support of equipment throughout its lifetime.

Company’s package of services includes:

1. initial advice on the selection of equipment and construction of the poultry house
2. assembly of building and installation of equipment
3. warranty and post-warranty service
4. project development
5. entering the poultry house into operation
6. technological support
SERVICE

Being an equipment producer of international level, TEXHA inherited ideology of the leading world companies, according to which “any failure is responsibility of the producer”.

**TEXHA service maintenance department** performs warranty for the whole life of the equipment carries out all types of repair and commissioning works trains and advises poultry farms staff on equipment maintenance ensures troubleshooting and maintenance of equipment provides with original spare parts

**Repair and adjustment of the poultry house life support systems**
The service department carries out repair and adjustment works for all poultry house systems of any level of complexity: feeding, drinking systems, systems of litter disposal, microclimate system as well as other systems in accordance with the technological process of poultry farming. Special activities: soldering of poultry litter disposal belt...

**Troubleshooting and Maintenance**
Smooth operation of the equipment within a long term is largely dependent on timely detection of faults and troubleshooting. TEXHA Service Department ensures professional troubleshooting of equipment, necessary repair, replaces worn parts, thereby prolonging the period of equipment operation.

**Staff training**
Within training the poultry farm staff studies the specifics of all equipment systems, familiarizes with the operating instructions of the equipment and takes tests to confirm obtained qualification. Training limits shall be set in accordance with customer’s needs and technological equipment characteristics.

**Installation of egg transportation systems**
Service department of the Company provides installation of eggs transportation systems of all types and producers. It performs works of any complexity.

**Soldering of poultry litter disposal belt**
Exclusive service of the company. Soldering of poultry litter disposal belt is made at an ambient temperature of at least +10°C. Works are carried out with an ultrasound Sonic device of Italian origin. Service department has developed a special type of butt joint of poultry litter disposal belt. Simple in application, this joint is able to provide the necessary strength and ease of operation.
INSTALLATION

One of advantages of TEXHA is a professional installation department. Even the most complex tasks and customized design solutions can be developed by highly-skilled installers of our company. Mission of mounting service is to provide timely entering into operation of object with well-functioning equipment which can facilitate smooth effective work of poultry house.

TEXHA provides appropriate guarantees for work performed

Experience of installation department: construction of industrial facilities in various countries of the world, including the United States of America, China, Argentina, Russia, Algeria and others.

- Advice on construction of buildings and preparation of the site for construction.
- Preparatory works.
- “Turnkey” installation or installation supervision.
- Equipment installation and adjustment.
- Commissioning.

“Turnkey” installation is performed by a team of 10 people.

Installation supervision is performed by 1-3 specialist(s).
**TECHNOLOGICAL CENTER**

As part of the project TEXHA provides technological support:

- on-line consultation on current issues of poultry breeding;
- on-site inspection by the employees to accompany the loading and unloading of the birds, solution of especially complex issues of livestock keeping;
- designing of technological projects for the production of poultry meat and eggs;
- preparation of feed rations, taking into account the tasks and requests of the company-customer;
- development and introduction of innovative technologies of poultry breeding.

**Calculation of poultry quantity in order to achieve the objectives**

Experts of the company calculate livestock of the poultry house in the cage equipment taking in account the cross used by the enterprise for receipt of certain volumes of poultry meat and eggs.

520 70 companies are annually visited by process engineers of the companies

520 70 poultry farms are serviced by the technological centre of TEXHA company

**Services of technological centre are included in the cost of the project.**

Preparation of rations based on forage of enterprise-customer

Our process engineers prepare poultry ration in accordance with customer’s requirements and the challenges which the company faces. In the process of poultry growing the ration is adjusted, if necessary.

**Technological support during all stages of poultry breeding and keeping**

Technologies of TEXHA company provide customer with support throughout the entire cycle of poultry breeding and keeping. Experts of the company personally supervise particularly complex processes - placement and unloading, provide necessary recommendations, and train the staff of the poultry house. In certain cases expert visit the site for inspection of poultry and forming an opinion for subsequent findings on the terms of keeping.
Economic success of the company-customer is the best evaluation of our company.

According to experienced entrepreneurs of poultry industry, business formula of this success consists of three "C" - Collective, Cross and Concentrate.

Large experience in close collaboration with a variety of poultry enterprises in different countries of the world entitles to alter this formula and supplement it with an integral part - the fourth "C" - a high-quality Cage.

Advantages of "TEXHA" equipment

Designs, having passed tests at own testing site.

Easy to operate.

Development of any project taking into account the technical and technological parameters of your poultry farm.

Increased resistance of the equipment to the effects of conventional cleaning and disinfecting agents, thanks to the use within the production of high-quality materials and modern technologies.

Warranty and post-warranty services for the entire life of the equipment.

Prompt maintenance of equipment, due to extensive network of service centres and logistics warehouses.

Introduction of innovative technologies that allow you getting the maximum results.
Solutions for Leaders in Poultry

Models of cage are offered by the company for the most high-quality implementation of each business concept. You will be able to choose the equipment meeting used technology, cross of the birds, climate zone of the enterprise location and other determining factors.

Equipment for laying hens "Standard", "Universal" and "Premium".

Equipment for growing broiler chickens with automated unloading - "ROBOT".

Equipment for breeders.

Equipment for pullets and broiler chickens (6 types).

Alternative "Baltika" system for laying hens with free range.

Floor equipment for broiler chickens.
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.

High quality of construction allows installing of 12-tiered equipment with an intermediate floor.
Standard projects of equipment for cage keeping of laying hens are designed to meet all kinds of requirements for such structures. Mechanization and automation of the processes of feeding, watering, litter removing, egg collection and other technological processes greatly facilitate the work of the poultry house staff, and reduce the number of involved employees.

It results in reduction of production costs per production unit.

<table>
<thead>
<tr>
<th>Equipment specifications</th>
<th>Universal</th>
<th>Premium</th>
<th>Standard</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number of tiers</td>
<td>3–12</td>
<td>3–12</td>
<td>3–12</td>
</tr>
<tr>
<td>Number of birds per cage</td>
<td></td>
<td>9*</td>
<td></td>
</tr>
<tr>
<td>Cage width, mm</td>
<td>735</td>
<td>735</td>
<td>770</td>
</tr>
<tr>
<td>Cage depth, mm</td>
<td>625</td>
<td>525</td>
<td>575</td>
</tr>
<tr>
<td>Distance between tiers, mm</td>
<td>53</td>
<td>53</td>
<td>53</td>
</tr>
<tr>
<td>Facade height, mm</td>
<td>400</td>
<td>400</td>
<td>400</td>
</tr>
<tr>
<td>Feeding front, mm</td>
<td>73,5</td>
<td>817</td>
<td>70,0</td>
</tr>
<tr>
<td>Cage area, sq.m</td>
<td>0,459</td>
<td>0,436</td>
<td>0,443</td>
</tr>
<tr>
<td>Cage area per laying hen, sq. cm</td>
<td>459</td>
<td>429</td>
<td>403</td>
</tr>
<tr>
<td>Ø wire diameter of floor grate, mm</td>
<td>2,0</td>
<td>2,0</td>
<td>2,0</td>
</tr>
<tr>
<td>Incline of floor grate</td>
<td>7º</td>
<td>7º</td>
<td>7º</td>
</tr>
</tbody>
</table>

Number of birds in the cage is determined by the requirements for space per 1 bird of a particular cross; it depends on climatic conditions and other factors. The final decision on the number of birds in the cage is taken by the chief technologist of the poultry farm and product engineer of cross supplier.
In addition to traditional cage technology for laying hens, TEXHA offers a solution of free range keeping for poultry. This system is designed in accordance with European requirements for laying hens. Main difference of "Baltika" is more space for henrun and compliance with parameters of the cage, which together improve the emotional state of the laying hens, and it positively influences egg production and egg quality.

"Baltika" is developed due to European and American requirements of laying hens management.
Cage features:
Presence of the nest with a curtain, a bath for sand, additional areas for henrun;
Device for shortening the claws;
Use of solid galvanized perforated transverse partitions;
Three perches per cage provide at least 10 cm of perch per one hen;
Slope of floor grille is 7°;
Chain feed distribution system maximizes the feeding space, evenly distributing food for the whole battery.

<table>
<thead>
<tr>
<th>Technical specifications</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Number of tiers</td>
<td>3</td>
</tr>
<tr>
<td>Number of birds per cage</td>
<td>36</td>
</tr>
<tr>
<td>Cage width, mm</td>
<td>830</td>
</tr>
<tr>
<td>Cage depth, mm</td>
<td>1614</td>
</tr>
<tr>
<td>Distance between tiers, mm</td>
<td>656</td>
</tr>
<tr>
<td>Feeding front, mm</td>
<td>515</td>
</tr>
<tr>
<td>Height inside the cage, mm</td>
<td>455</td>
</tr>
<tr>
<td>Cage area, sq.m</td>
<td>2,95</td>
</tr>
<tr>
<td>Cage area per hen, sq. cm</td>
<td>820</td>
</tr>
<tr>
<td>Carpet cage area per hen, sq.cm</td>
<td>618</td>
</tr>
<tr>
<td>Feeding trough length, cm</td>
<td>20,3</td>
</tr>
<tr>
<td>Nest area</td>
<td>0,3</td>
</tr>
</tbody>
</table>

The effective European Union Directives EEC N°1274/91 and EEC N°2092/91 specify eggs classification depending on organization of laying hens keeping.

- **Category 3** - alternative poultry keeping;
- **Category 2** - limited range keeping;
- **Category 1** - free range keeping;
- **Category 0** - organic eggs, organic methods of keeping and breeding of laying hens.

"Baltika" equipment allows production of an egg of all the designated categories.

Typical project of poultry house

External silo

Drive of the auger conveyor
TEXHA produces three types of cage equipment for broiler chickens:

- with intracage feeding system and automatic unloading of birds;
- with intracage feeding system and manual unloading of birds;
- with the system of external feed and manual unloading of birds.

### Technical specifications

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number of floors</td>
<td>3, 4, 5</td>
</tr>
<tr>
<td>Quantity of poultry in the cage (recommended)*</td>
<td>55</td>
</tr>
<tr>
<td>Width of the cage</td>
<td>1200 mm</td>
</tr>
<tr>
<td>Depth of cage</td>
<td>1608 mm</td>
</tr>
<tr>
<td>Distance between floors</td>
<td>654 mm</td>
</tr>
<tr>
<td>Poultry discharge opening height</td>
<td>190 mm</td>
</tr>
<tr>
<td>Front height</td>
<td>408 mm</td>
</tr>
<tr>
<td>Height of the door</td>
<td>288 mm</td>
</tr>
<tr>
<td>Cage area</td>
<td>193 m²</td>
</tr>
<tr>
<td>Surface of the cage for about 1</td>
<td>350.8 cm²</td>
</tr>
<tr>
<td>Mesh floor (box size)</td>
<td>16x25 mm</td>
</tr>
<tr>
<td>Diameter of the floor of fence wire</td>
<td>2.0 mm</td>
</tr>
</tbody>
</table>

*Number of birds in the cage is determined by the requirements for space per 1 bird of a particular cross, it depends on climatic conditions and other factors. The final decision on the number of birds in the cage is taken by the chief technologist of the poultry farm and product engineer of cross supplier.
Features of lighting system

The basic set of equipment for broiler keeping includes intracage lighting system. Light intensity can be adjusted. The lighting system does not prevent from the cleaning and disinfection of the poultry house.
EQUIPMENT FOR FLOOR KEEPING OF BROILER CHICKENS

TEXHA offers specially designed equipment for poultry farms applying floor technology for broiler chickens. It takes into account the latest developments and achievements in the field of floor poultry keeping.

A special element of feeding system for floor keeping is KoChiBo 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
Advantages of KoChiBo:

Guaranteed access to feed for a chicken from the first day of life due to the low edge of the trough

Beams of feeder limit access into it for chicks of 6-8 days of life

Volume of the feed increases as number of birds increases

The trough is made of raw materials to ensure its high level of quality, reliability and durability

It comprises 6 elements to be easily disassembled and cleaned

The adjustment system includes a movable bottom and a movable housing, making it possible to change the feeding line and feed volume.

<table>
<thead>
<tr>
<th>Equipment specifications</th>
<th>Broiler Light</th>
<th>Broiler Heavy</th>
</tr>
</thead>
<tbody>
<tr>
<td>Head quantity/feeder</td>
<td>60-70</td>
<td>50-60</td>
</tr>
<tr>
<td>Average finishing age</td>
<td>6 weeks</td>
<td>8 weeks</td>
</tr>
<tr>
<td>Average finishing weight [kg]</td>
<td>2.2</td>
<td>3.5</td>
</tr>
<tr>
<td>Density of placement [head/sq m]</td>
<td>16-20</td>
<td>10-16</td>
</tr>
<tr>
<td>Feeder plate diameter</td>
<td>330 mm</td>
<td></td>
</tr>
<tr>
<td>Average feeder capacity</td>
<td>730 g (feed level - 4)</td>
<td></td>
</tr>
<tr>
<td>Pipe Ø</td>
<td>44,5 mm</td>
<td></td>
</tr>
<tr>
<td>Feed amount</td>
<td>600 g/m of pipe</td>
<td></td>
</tr>
<tr>
<td>Motor</td>
<td>0.37 kW - 3 50 Hz, 3-phase</td>
<td></td>
</tr>
<tr>
<td>Conveyor productivity</td>
<td>450 kg/hour</td>
<td></td>
</tr>
<tr>
<td>Max. length of the feeding line</td>
<td>150 m</td>
<td></td>
</tr>
</tbody>
</table>

8 or 16 rays for different final weight of broiler
Special attention should be paid to poultry farms raising chickens to replace the adult poultry.

Rearing flock requires specific conditions, including

special feeding regime

special microclimate conditions

adjusted cage equipment

Compliance with these conditions directly influences the quality of laying hens and meat breeds.

Thanks to high-tech complex solutions provided by TEXHA any poultry house can be equipped with the necessary equipment for young poultry breeding.
Since the development and launch of equipment for the rearing flocks and broiler chickens keeping, it has passed through several stages of modernization. Today TEXHA offers 6 kinds of JUNIOR cage equipment.

Depending on the conditions and needs of the poultry enterprise there can be installed batteries from 2 to 6 tiers.

**Technical specifications**

<table>
<thead>
<tr>
<th>N°</th>
<th>Type of equipment</th>
<th>Cage size</th>
<th>Recommended number of birds in a cage</th>
<th>Floor area per a head, cm²</th>
<th>Feeding front per a head, cm</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Nestling broiler</td>
<td>1200x675</td>
<td>25</td>
<td>320</td>
<td>4,8</td>
</tr>
<tr>
<td>2</td>
<td>Laying hen pullet</td>
<td>1200x675</td>
<td>28</td>
<td>288,8</td>
<td>4,28</td>
</tr>
<tr>
<td>3</td>
<td>Laying hens – hens</td>
<td>1200x675</td>
<td>27</td>
<td>300</td>
<td>4,44</td>
</tr>
<tr>
<td>4</td>
<td>Broilers - hens</td>
<td>1200x675</td>
<td>15</td>
<td>545</td>
<td>8</td>
</tr>
<tr>
<td>5</td>
<td>Laying hens – roosters</td>
<td>1200x675</td>
<td>20</td>
<td>400</td>
<td>6</td>
</tr>
<tr>
<td>6</td>
<td>Broilers - roosters</td>
<td>1200x675</td>
<td>13</td>
<td>620</td>
<td>9,2</td>
</tr>
</tbody>
</table>

**Equipment parameters**

- Cage width, mm 1200 1200
- Cage depth, mm 675 675
- Distance between floors, mm 768 538
- Front height, mm 620 370
- Cage area, m² 0,81 0,81

**Scheme of equipment**

- Scheme of equipment for pullets growing with top level for cockerels
- Scheme of equipment for cockerels
Physical and emotional condition of the parent chickens directly affects the quality of the reproduced offspring. Good conditions of keeping parent chickens positively affect their efficiency, in particular, the production of hatching eggs. Creation of the most comfortable environment for parent stock is the main task of special developments of TEXHA. The cage structures are designed taking into consideration experience of the world producers in the field of reproduction of various crosses. TEXHA offers equipment both for separate and joint keeping of hens and roosters.
Separate keeping means keeping of 4-5 chickens in a cage and keeping of every rooster in a separate cage.

Joint keeping refers to cases where every cage is designed for 29 hens and 3 roosters. In addition, feeding zones are separated: feeding zone of hens is separated with the horizontal bars on the doors. Due to height restrictions, the rooster is not allowed to get to the feed trough. Feeding zone of roosters is separated with the vertical bars.

**Technical specifications**

<table>
<thead>
<tr>
<th>Equipment parameters</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Number of birds per cage</strong></td>
</tr>
<tr>
<td>Cage width, mm</td>
</tr>
<tr>
<td>Cage depth, mm</td>
</tr>
<tr>
<td>Distance between tiers, mm</td>
</tr>
<tr>
<td>Facade height, mm</td>
</tr>
<tr>
<td>Height in the cage, mm</td>
</tr>
<tr>
<td>Cage area, sq.m</td>
</tr>
<tr>
<td>Cage area per laying hen, sq. cm</td>
</tr>
<tr>
<td>Feeding front, mm</td>
</tr>
<tr>
<td>Nest width, mm</td>
</tr>
<tr>
<td>Nest depth, mm</td>
</tr>
<tr>
<td>Nest height, mm</td>
</tr>
<tr>
<td>Incline of floor grate</td>
</tr>
<tr>
<td>ø wire diameter of floor grate, mm</td>
</tr>
</tbody>
</table>

* Number of birds in the cage is determined by the requirements for space per 1 bird of a particular cross; it depends on climatic conditions and other factors. The final decision on the number of birds in the cage is taken by the chief technologist of the poultry farm and product engineer of cross supplier.

**Advantages of equipment**

Convenient and easy-to-use cage, made of solid stainless steel
Separation of feeding and watering zones of hens and roosters
Possibility to install a special additional feeder for roosters
Available darkened nest with a shutter improves the emotional state of the birds, thus increasing egg production
Protective screen made of galvanized steel prevents eggs pecking
Design of the cage and minimal use of plastic parts enable high-quality cleaning with hot water under pressure.
Distinctive features of the feeding system for different types of equipment:

as for the equipment for the parent stock, the separation of feeding zones for chickens and roosters allow the birds realizing their genetic potential in full; possibility to install a special additional feeder for rooster.

as for the equipment for JUNIOR rearing flock, adjusting bracket provides access to the feed, depending on the age of the chicken and does not allow a one-day chicken leaving the cage.
Advantages of bunker feeding system:
Bunker 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 the weight and to ensure uniformity of the flock

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.

Intracage chain feeding system

is used in an alternative system for laying hens "Baltika". Due to it the space of feeding is maximized.

Feed distribution through gutter is made with a steel flat link chain with a special design. The feed from the hopper enters to the trough, is captured with the chain and through a closed circuit is distributed evenly through the entire battery feed trough.

Advantages of intracage systems:
longitudinal feeding lines are made of pipe of 1 mm thick galvanized steel, which makes the system more durable in comparison with European analogues;
screw pin made of spring stainless steel;
rolled pipes with rolling for a reliable connection with the length of 3.05 m;
automatic filling of feeders with the option of programmable feeding time.
The company produces all elements of drinking system: PVC square pipes, drinking bowls, cups and drop catcher. It entitles to ensure high quality of the product and provides the flexibility to promptly respond to innovations.

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 in different types of cage equipment

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 80 ml/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 80 ml/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 "Baltika"
Drinking line is equipped with 4 vertical nipple drinkers with capacity of 50 ml/min with drop catchers
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%

General characteristics of the polypropylene tape:

- Resistance to acids, alkalis, salts and most of organic solvents and elevated temperatures;
- Withstands high tensile strength;
- Tape can be used for the conveyors operating in the temperature range from 10 to 60°C both in inimical environment and for transporting of corrosive materials;
- Tape surface has low adhesion; therefore, it can be easily cleaned from the remains of materials transported on it.
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.

**Elevator egg collection system:**
eggs are collected from all batteries of all tiers simultaneously.

**Advantages of TEXHA 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.
SOLUTIONS FOR LEADERS IN POULTRY

SOLUTIONS FOR LEADERS IN POULTRY

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

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

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

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

The special celled shape of paper stripes, intersecting at an angle with symmetrical air flow can achieve significant cooling results with minimal pressure reduction.

Creation of a favourable climate for poultry keeping is the most important condition for a high quality and highly productive poultry house.
**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 TEXHA offers heaters of direct heating, using natural and condensed gas, or diesel fuel.

**Ventilation**
Satisfactory air quality is one of the prerequisites for the birds’ health and its productivity. TEXHA offers several options for ventilation of the poultry house, selection of which may be defined by the climatic conditions, construction of production facilities, as well as the customer’s preferences.

**Classical ventilation scheme**
Exhaust fans with capacity of 10,000 m/h are located in the side walls, and induction holes are located in the roof of the building. Management of both holes and groups of fans is provided by the climate-control computer.
Exhaust fans with a capacity of 40,000 m³/h are located in the end part of the production facilities (on the side of litter disposal unit). Fresh air enters the building through induction blinds in the opposite end of the building.

**Tunnel ventilation scheme**

Exhaust fans with a capacity of 40,000 m³/h are located in the end part of the production facilities (on the side of litter disposal unit). Fresh air enters the building through induction blinds in the opposite end of the building.

Exhaust fans with a capacity of 20,000 m³/h are located in the roof of the building. Fresh air is drawn into the house through the intake valves in the side walls. The system is equipped with an adjusting mechanism, to change the power level of the fans. Opening/closing of the valves and switching on/off of fans are performed by the climate-control computer.

**"Euro" ventilation scheme**

Exhaust fans with capacity of 20,000 m³/h are located in the roof of the building. Fresh air is drawn into the house through the intake valves in the side walls. The system is equipped with an adjusting mechanism, to change the power level of the fans. Opening/closing of the valves and switching on/off of fans are performed by the climate-control computer.

**All processes of poultry house are fully automated.**

Systems of automatic control and regulation of the microclimate in the poultry house allow controlling the following parameters:

- Volume of carbon dioxide
- Ventilation levels
- Humidity
- Temperature
- Pressure

**Mixed ventilation scheme**

Mixed type of ventilation is the most popular. It can combine tunnel scheme with the classical or "Euro" scheme. It allows using of one or the other type of ventilation depending on the season. For example, in winter and off-season (spring, autumn) you use classic or "Euro" scheme, while in summer you can use tunnel scheme.
AUTOMATION SYSTEM

TEXHA develops and implements automation of all processes of the poultry house - feeding, watering, lighting, litter disposal, egg collection.

Automation of support systems reduces to a minimum the number of operators involved into services.

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.

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

System allows controlling of:

- Food consumption
- Water consumption
- Bird weight
- Microclimate

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?

- Lack of supply voltage.
- Emergency exceed of preliminary specified limits.
- Emergency shutdown of ventilation group.
The lighting system is based on the global poultry innovations:

- 30,000 hours (1250 days) of continuous operation is the life of an energy-saving lamp.
- 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.
TEXHA offers LED lamps of 6 W PAL series for lighting of the poultry house among the batteries. They are compatible with a variety of devices based on the manual, automatic and remote control and dimming systems. Lamp of 6 W PAL series is designed to replace the common 40 watt incandescent lamp or 13 watt fluorescent lamp. Combination of high quality LEDs and elements of pure aluminium ensure luminescence 72 lm/W efficiency. The special design prevents from lamp overheating.

**Inter-row LED lighting system of the poultry house**

- Special shape PC cover extend the viewing angle to 150° light transmission rate, Milky white > 93%
- Superbright LEDs on aluminum plate
- Private mode purity aluminium radiator in conjoint structure by special technology possesses unique features, thermal conductivity is high to 220W/(m·K)
- beryl electrolytic capacitor, efficacy > 90%
- Fireproof grade UL 94--VO, PBT plastic base
- Base

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**Inter-cage LED lamp**

- The body is made of high quality polycarbonate;
- High level of outside influence protection, waterproof (IP67 protection level);
- Uniform light inside each cage;
- Light level setting range from 0 to 100%;
- Over 50 000 hours service life;
- Safe voltage: 24V;
- Color temperature of 2700-3000 K.
- Lamp Power Consumption 1.27 W
TEXHA company produces and sells following components:

**Polypropylene tape**
for longitudinal litter disposal:
resistant to acids, alkalis, salts, most organic solvents as well as to elevated temperatures;
high tensile strength;
tape can be used for the conveyors operating in the temperature range -10-60 °C both in inimical environment and for transporting of corrosive materials;
easy to clean from pollution due to the low adhesion surface.

**KoChiBo feeder**
the use of high quality raw materials within production of the trough ensures its reliability and durability;
trough design ensures easy maintenance;
two regulation systems make it multi-purpose for use throughout the whole poultry breeding cycle.

**Drinking pipe**
is made of PVC, 22x22 mm square section;
installation of nipples is performed with special equipment that ensures tightness of connections and high performance.

**Feed storage tank**
Feed storage tanks are designed for outdoor storage of feed. Capacity can vary from 6 to 50 tons of feed, depending on the needs of poultry farms.
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For today TEXHA has dealers and representatives in 16 countries

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