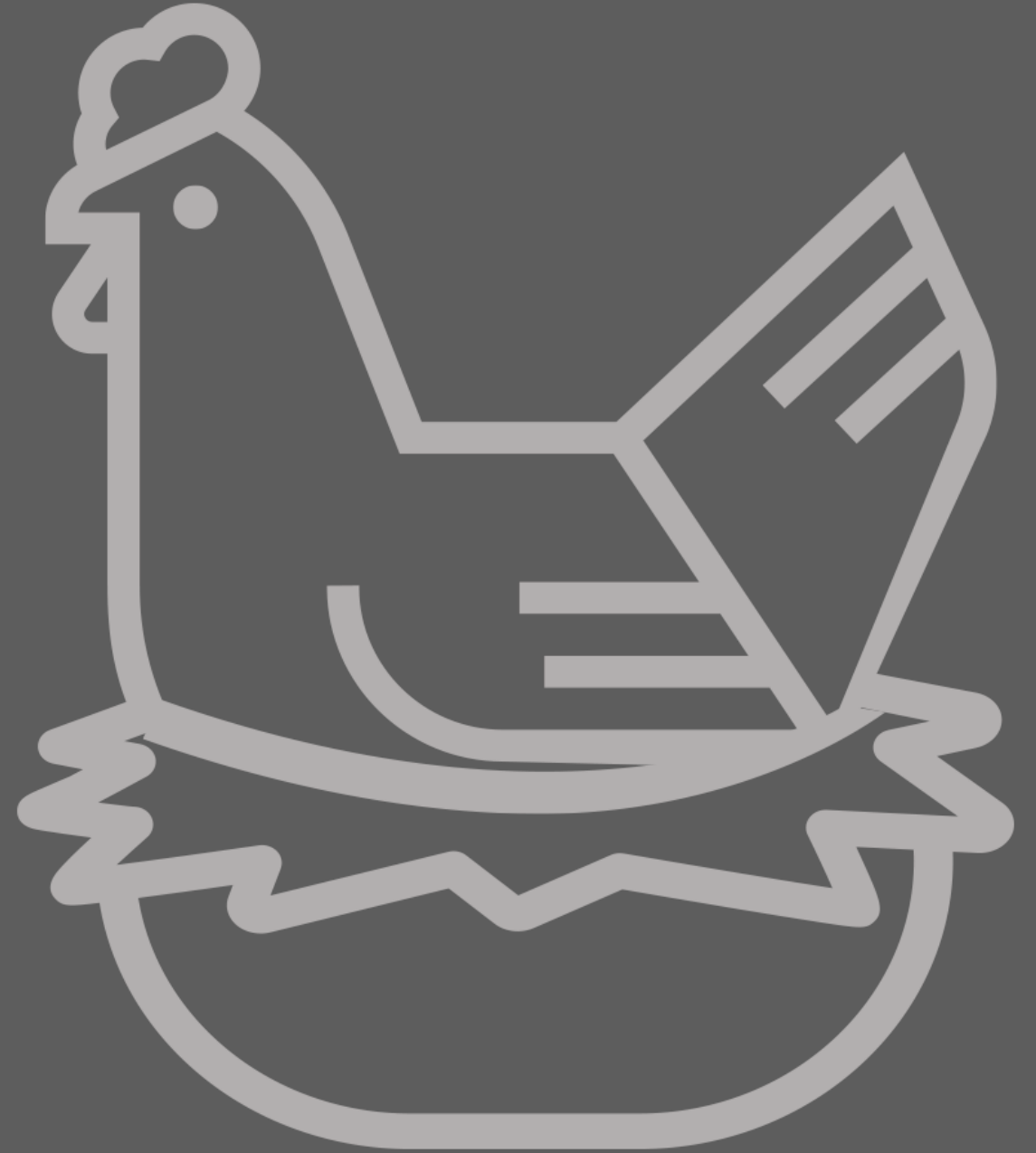




LAYING HEN FARMING

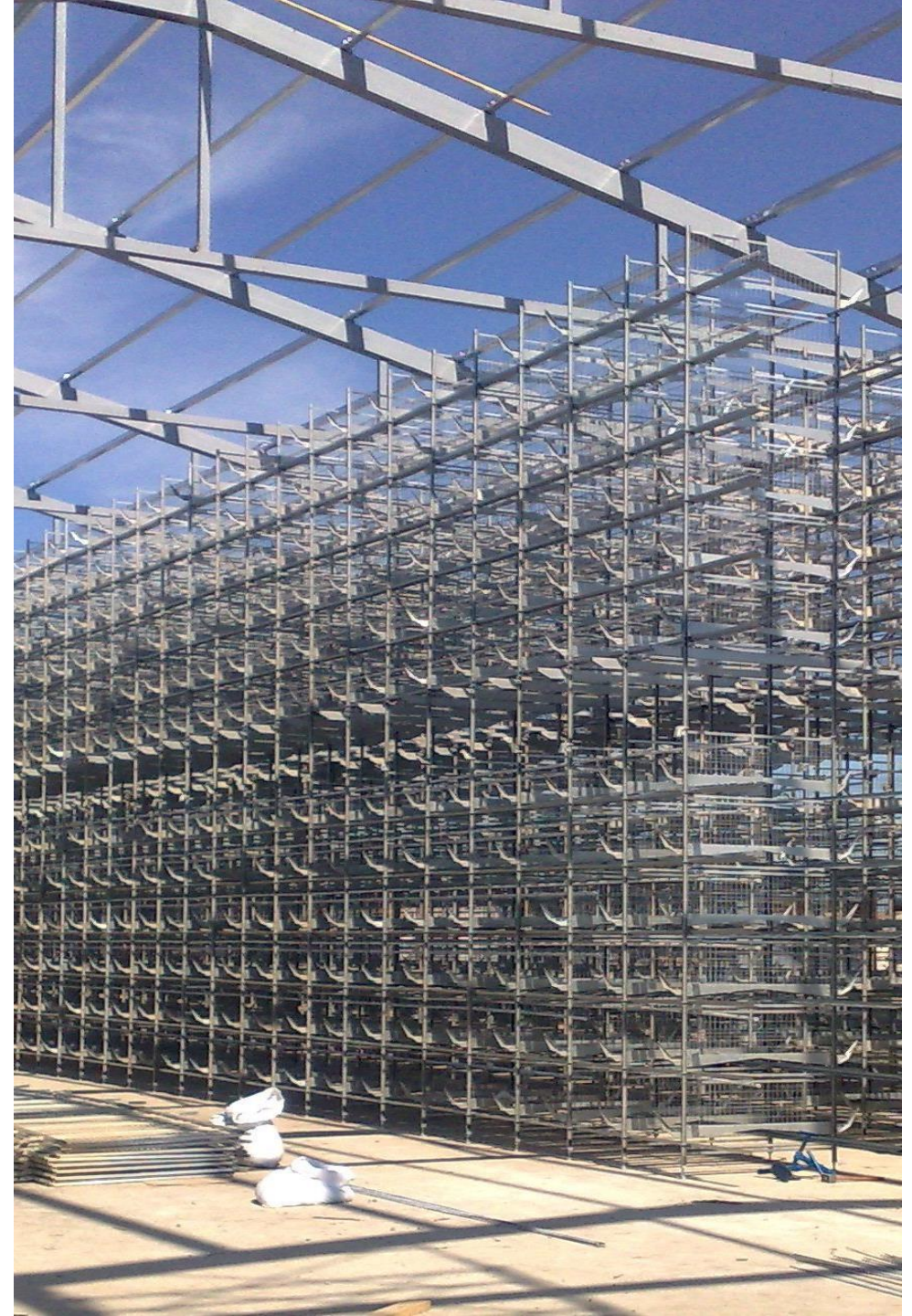
CAGE EQUIPMENT

TEXHA.COM



DESIGN

- TEXHA brand offers state-of-art engineering solutions.
- Cage equipment options for laying hen farming: Standard, Universal, Optima
- Choice of equipment model depends on several factors:
 - Cross-breed of birds
 - Poultry farming technology
 - Climatic zone of poultry farm location
- Ability to install up to 12 levels with intermediate floor

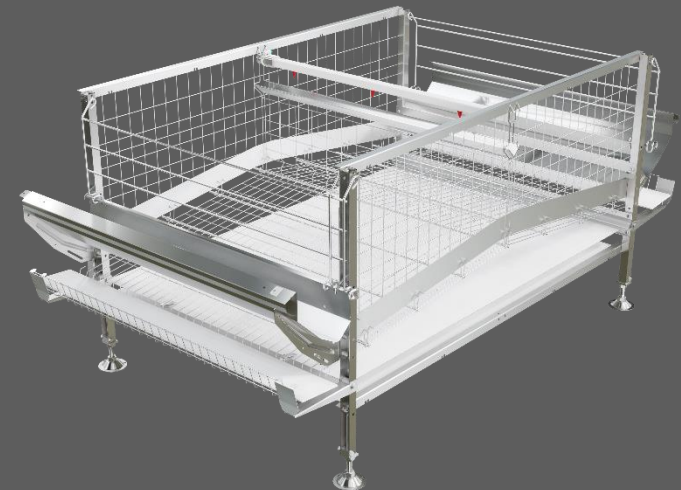


ADVANTAGES AND SPECIFICATIONS

- In-house production and quality control
- System automation: egg collection, litter removal, feeding, drinking, lighting microclimate
- Minimizing human factor influence
- Minimum service personnel requirement



Specifications	Models		
	Standard	Universal	Optima
Number of levels	3-12	3-12	3-12
Number of birds per cage*	11	10	11
Cage width, mm	770	735	770
Cage depth, mm	575	625	625
Distance between levels, mm	518	518	568
Façade height, mm	400	400	450
Feeding frontline, mm/bird	70	73,5	70
Cage area, sq.m	0,443	0,459	0,482
Area per bird, sq. cm	403	459	438
Floor mesh wire diameter, mm	2	2	2
Floor mesh slope	7°	7°	7°



**May be adjusted depending on the cross-breed of birds.*

EggStream EGG COLLECTOR

TEXHA offers two different types of egg collection solution:

- Lift-based
- Elevator-based

Egg collection process automation ensures the following:

- High process performance
- Reduced stress for birds
- Low egg damage rate
- Biological safety
- Decreased labor intensity



EGG COLLECTION SYSTEM: LIFT

Lift-based egg collection system consists of following:

- Drive stations of lengthwise egg collection belts (one for each battery).
- Lengthwise egg handling belts
- Crosswise egg collection conveyor running between the levels;
- Accumulation table for manual egg grading

Outstanding features:

- Smooth adjustment of the egg collection speed rate
- Easy and convenient maintenance
- Precise mechanics



EGG COLLECTOR SYSTEM: ELEVATOR

High-performance full-fledged equipment, which allows simultaneous egg collection from all the battery levels.

May be integrated into the general egg-handling system of the poultry farm.

Use of the system allows:

- Simultaneous collection of eggs accumulated at any crosswise egg collection conveyor height level.
- Transfer of eggs to any handling systems, receiving tables of grading and packing machines
- Simple and space-effective solution
- Reduced labor intensity of the process
- Efficient process logistics
- Economic benefits



LITTER REMOVAL SYSTEM

Full process automation

The solution use the belt-based litter removal technology, which ensures quick and reliable litter removal from all levels.

- Metal materials with high corrosion resistance
- Hot dip galvanization of conveyor surface
- Polypropylene belt
 - Manufactured by TEXHA
 - Top-tier raw materials
 - High quality
 - Tested at internal laboratory



DRINKING

This reliable, efficient and easy-to-use drinking system consists of a water treatment unit, a water distribution system and drinking lines at every level.

- Water treatment unit: filter, flow meter, medicator, pressure gauges, valves and fittings
- Nipples moveable up and down
- High-quality assembly and line connection sealing
- Easy adjustment of drinking line height



FEEDING SYSTEM

Key concept this system is preservation of the feed quality and timely distribution of the required feed portions for every bird.

- Highly precise and efficient feed distribution
- Feed uniformity for each bird
- Feed loss prevention
- Reduced labor efforts and energy consumption

TEXHA offers two different types of feed distribution systems:

- Bin-based
- Chain-based



BIN-BASED FEED DISTRIBUTION SYSTEM

The system consists of:

- External storage feed bin
- Crosswise feed loading conveyor
- Mobile feed distribution unit for each battery
- Feed tray
- Feed dispenser at every level

System Specifications:

- Low energy consumption of feed distribution process
- Precise feed dispensing
- Even feed distribution at all levels or only at certain levels of the battery
- Ensuring uniformity of feed composition
- Elimination of feed 'stagnant' zones thanks to the feed tray design



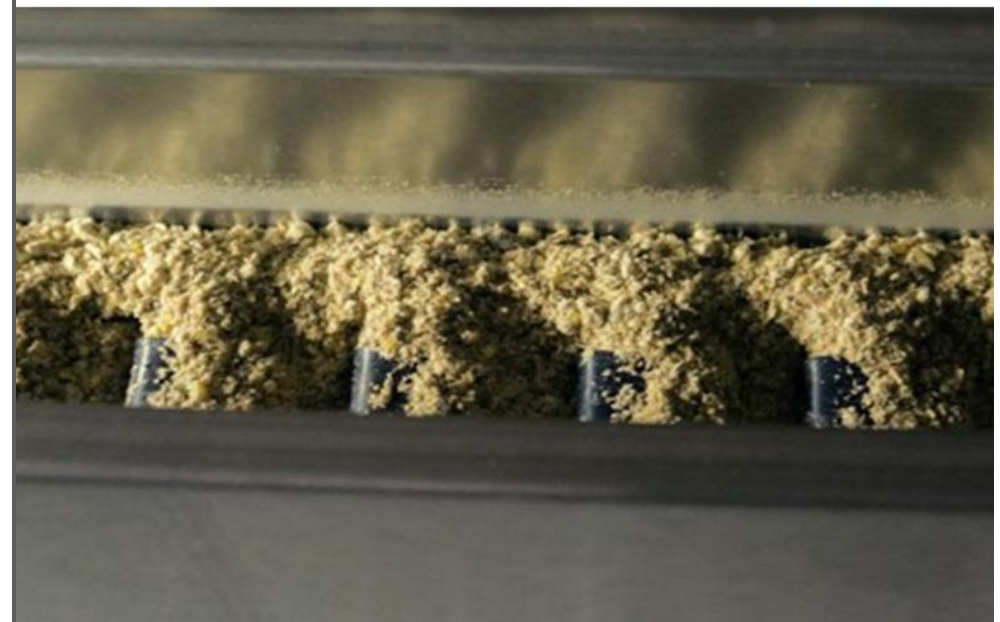
CHAIN-BASED FEED DISTRIBUTION SYSTEM

The system consists of:

- External storage feed bin
- Crosswise feed loading conveyor
- Following equipment is installed at every level
 - Agitator hoppers
 - Closed feed distribution chains
 - Feed chain drive stations
 - Swivel blocks
 - Feed tray

Advantages:

- Efficiency and durability
- Easy operation and maintenance
- Reduced feed loss
- High performance of feed distribution unit



LIGHTING SYSTEM:

ADVANTAGES



- Use of LED lamps with energy consumption:
 - o 10 times lower as compared to the filament lamps
 - o 2,5 times lower as compared to the luminescent lamps
- Lighting intensity adjustment in 0-100% range for sunrise / sunset functions
- Compliance with the international environmental requirements
- High level of protection against external impacts
- Warranty and post-warranty service



MICROCLIMATE

The microclimate system may consist of the one to four following sub-systems in various combinations:

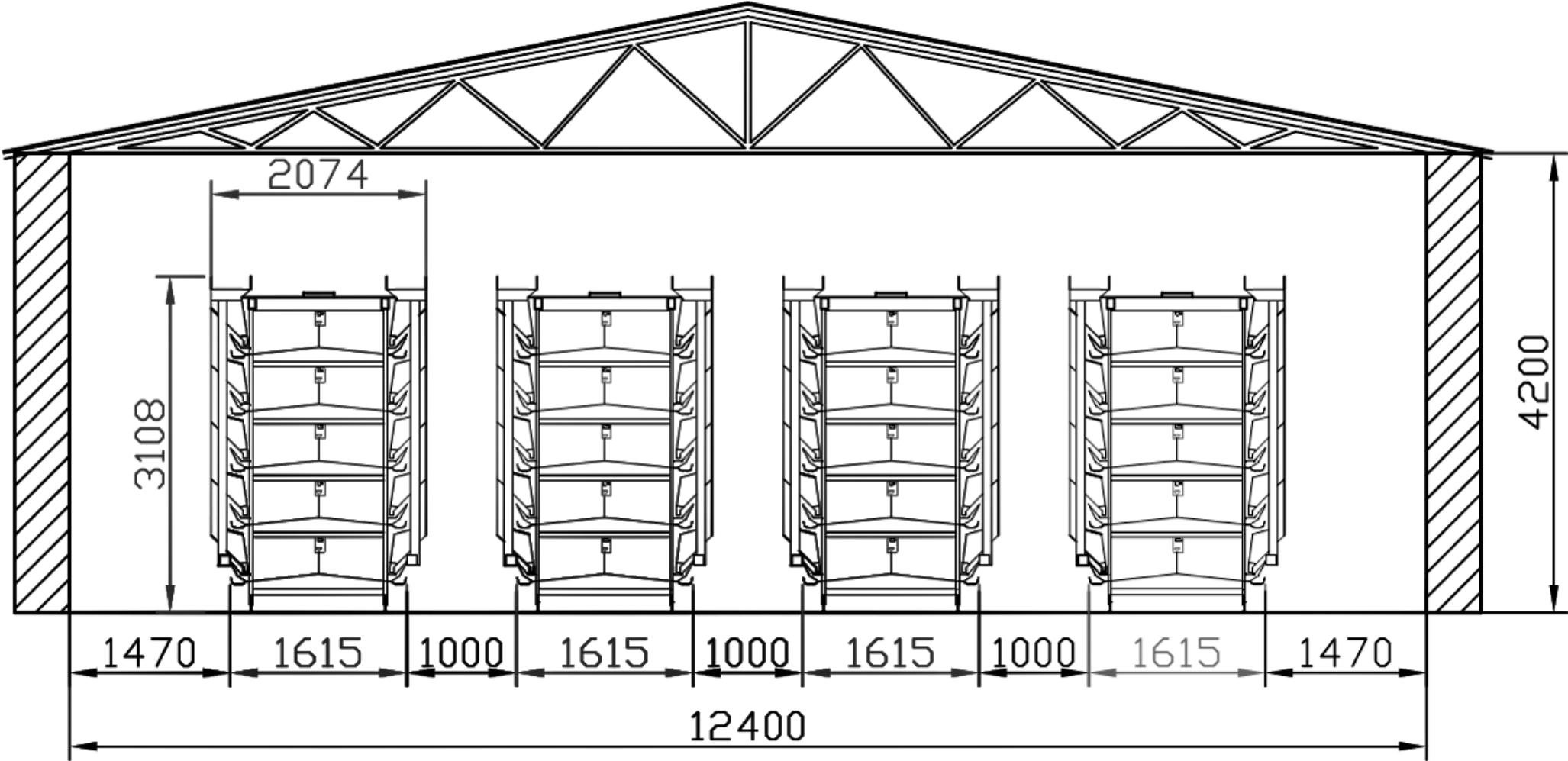
- Ventilation
- Heating
- Humidification / cooling
- Automation

Ventilation system by TEXHA:

- High performance
- Energy efficiency
- Low noise level
- Durability of equipment
- Reliability and cost effectiveness



TYPICAL LAYOUT



TYPICAL LAYOUT

