



**TEXHA®**

**CAGE-FREE  
SYSTEMS  
BALTIKA-4 &  
BALTIKA PULLETS**

Poultry equipment production

**TEXHA.COM**



The equipment has successfully passed the testing at TEXHA's own in-house trial facility

**Baltika** product line has been developed in compliance with all relevant European and US requirements towards cage-free poultry farming.



Humane Farm Animal Care (HFAC)



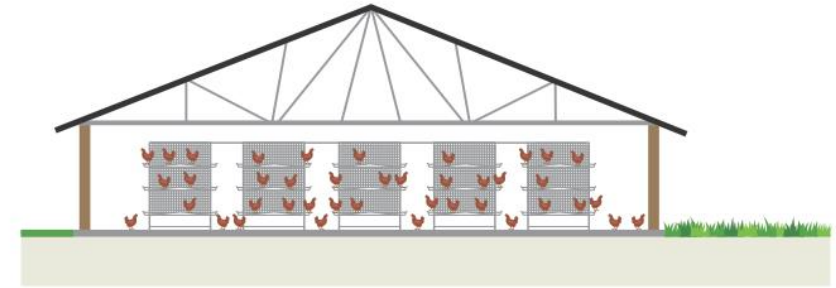
The Association for Controlled Alternative Animal Husbandry (KAT)



# LAYER HEN MANAGEMENT SYSTEMS

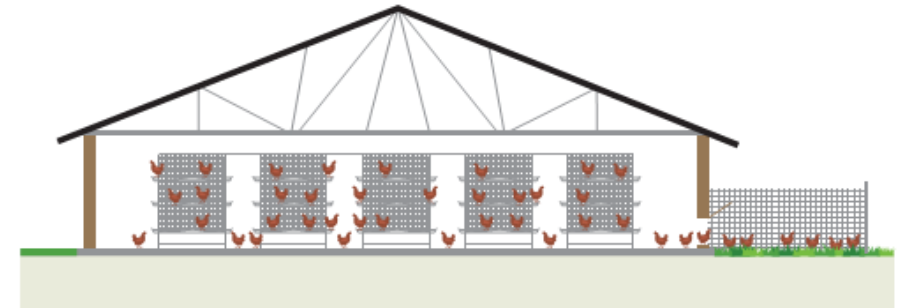
## **CAGE-FREE**

- The birds can walk freely inside the building, although kept away from the facility yard



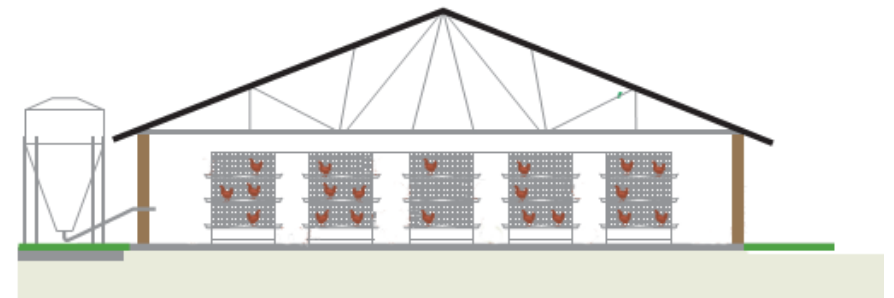
## **FREE RANGE**

- The birds can move freely inside the building and have access to outdoor open-air walks

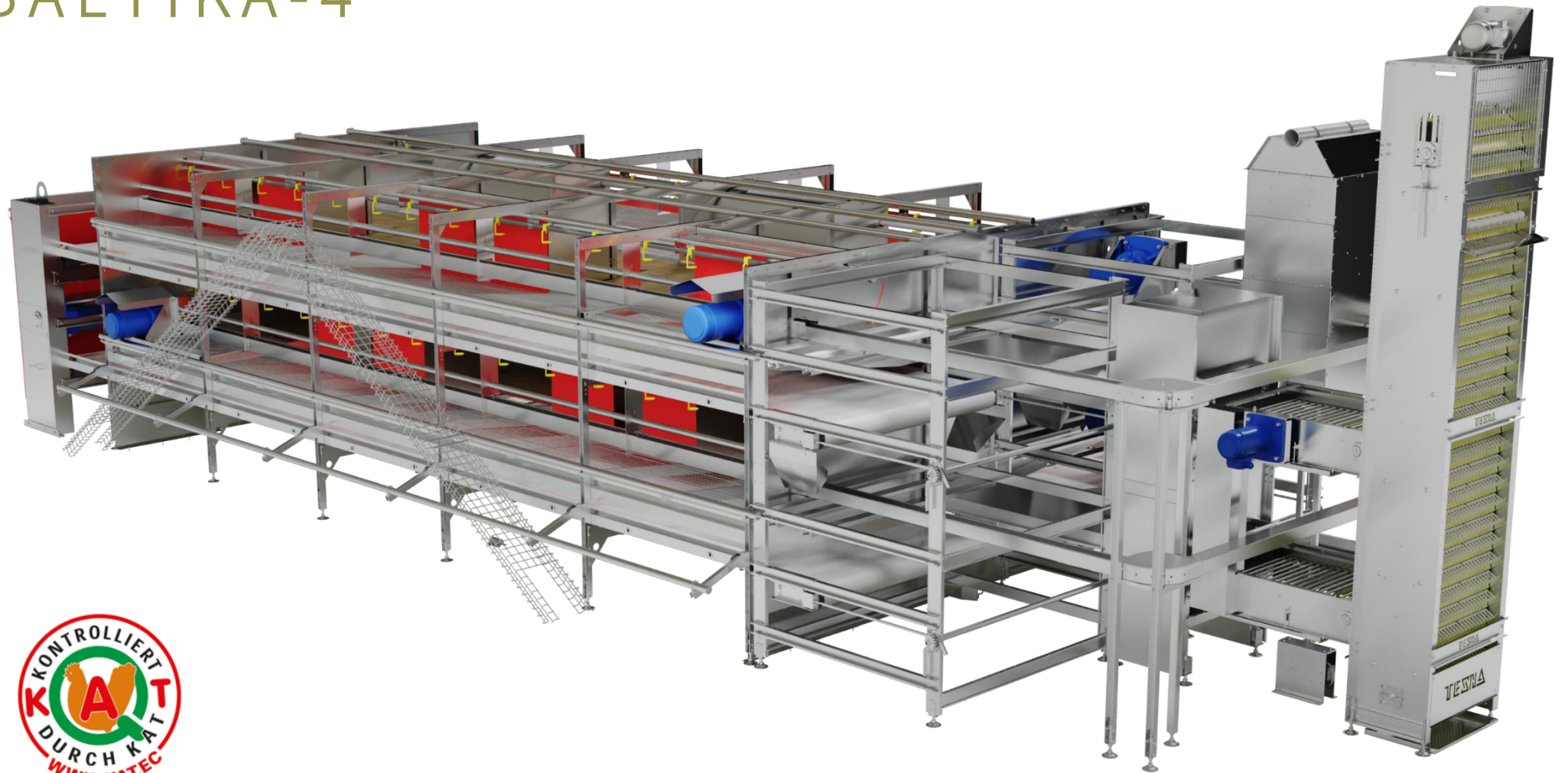


## **ENRICHED**

- The birds are kept in closed cages. The cage incorporates the claw sharpeners, the nest and the perch.



# BALTIKA-4



# BALTIKA-4

|                              | 2-level section      | 3-level section      |
|------------------------------|----------------------|----------------------|
| Section width                | 2 750 mm             | 2 750 mm             |
| Section depth                | 1 219 mm             | 1 219 mm             |
| Section height               | 1 990 mm             | 1 990 mm             |
| Feeding frontline            | 100mm/head           | 100mm/head           |
| Nest area                    | 0,82 m <sup>2</sup>  | 1.22 m <sup>2</sup>  |
| Useful section area*         | 10,84 m <sup>2</sup> | 10,84 m <sup>2</sup> |
| Slate floor slope            | 7°                   | 7°                   |
| Number of birds per section* | 98                   | 98                   |
| Space under battery          | 450 mm               | 450 mm               |
| Level height                 | 477 mm               | 477 mm               |

*\*Depending on building characteristics*



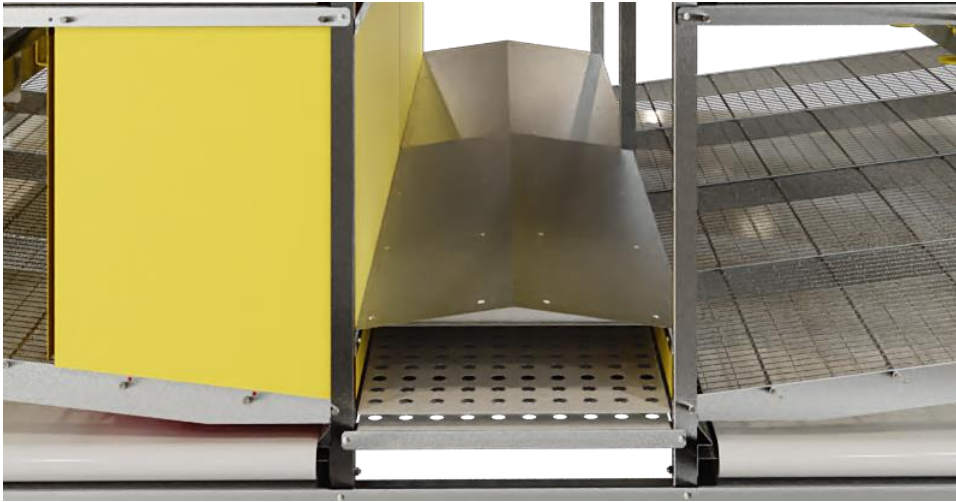
# EGG-COLLECTION SYSTEM

**Clean eggs are the key advantage of our system!**

Egg-collection process automation results in:

- High process performance
- Reduced stress of birds
- Lower egg breakage rate
- Compliance with biological safety standards
- Reduced labor efforts





## EGG-COLLECTION SYSTEM



- Specially designed egg collection tunnel covering helps to protect the eggs from dust, litter and from pecking by the birds. The covering slope efficiently prevents accommodation of litter.
- Belt conveyor of the egg collection system runs at the middle of the battery. Such arrangement helps to increase both the useful area of the cell and the maximum poultry population.
- The belt runs through all level of the egg collection system, except for the ground level, in order to ensure successful retrieval and handling of eggs to the collection points.

# LITTER REMOVAL SYSTEM

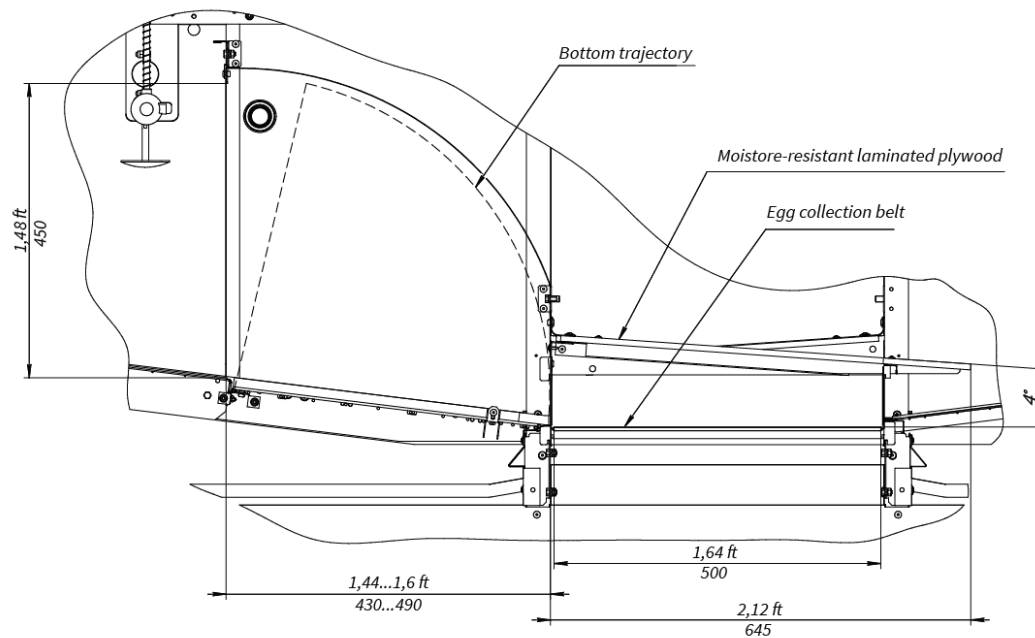
**Baltika-4 solution may boast the fully automated litter removal process.**

The system incorporates polypropylene litter removal belts below each level, except for ground level, and the designated litter removal device mounted on the floor underneath the cage space.

- Only the belts made of virgin polypropylene are used in the equipment.
- The belt is cleaned from litter by the scrappers made of wear-resistant material. The tension stations with auger shafts ensure cleaning of the belt's internal surface.
- For reliability's sake, the system uses two separate belts at every level, where one belts runs at each side of the battery. The narrower the belts are, the more reliably the whole system operates.



# AUTOMATION NEST WITH BOTTOM LIFTING



## Technical Specifications

|                        |                  |
|------------------------|------------------|
| Depth                  | 430-490 mm       |
| Length                 | 1219 mm          |
| Floor coating          | Artificial grass |
| Floor slope            | 8-10°            |
| Structural material    | Galvanized steel |
| ⌀ Floor mesh           | 3,8 mm           |
| Floor mesh coating     | Galvanized       |
| Opening / closing time | from 15 minutes  |



## DRINKING SYSTEM



Baltika-4 includes reliable and easy-to-operate drinking system consisting of the water treatment unit, water distribution system and drinking lines at each level.

- Vertically operated nipple drinkers with drop catcher bowls
- High-quality assembly and reliable sealing of drinking line connections
- Easy adjustment of drinking line height
- Easy access to water for every hen

1 nipple per 10 hens

# FEEDING SYSTEM

- Feed distribution system is fully automated and is intended to deliver fresh and uniform feed from external feed silo to every hen at every level and to ensure even distribution of feed in the feeding tray
- The feed supply conveyor is equipped with dual augers operated from separate drives, which allows significant reduction of the hopper filling time and idle time of the system
- The perches located above the feeding line prevent contamination of feed with litter



# LIGHTING SYSTEM:



## ADVANTAGES

- Use of LED lamps with energy consumption
  - 10 times lower as compared to the filament lamps
  - 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

# MICROCLIMATE SYSTEM

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





BALTIKA Pullets

# BALTIKA Pullets



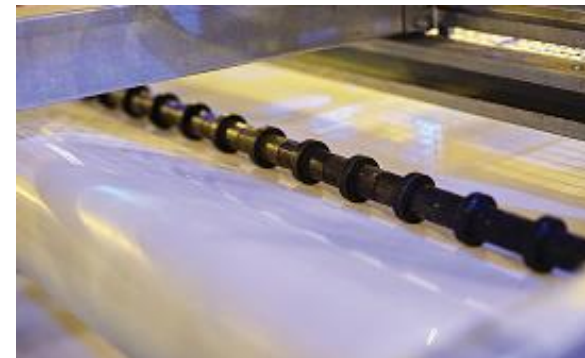
|                               |            |
|-------------------------------|------------|
| Number of tiers               | 3          |
| Width                         | 2400 mm    |
| Depth                         | 805 mm     |
| Distance between tiers        | 654 mm     |
| Feeding front                 | 2400 mm    |
| Height inside the compartment | 508 mm     |
| Area                          | 1.93 sq.ft |



Feeding System



Drinking System



Litter Removal



Lighting System



Microclimate System



Production Process Monitoring and Management

# BALTIKA Pullets

Automation of all vital systems