

ZHENGZHOU **LIVI**
MACHINERY MANUFACTURING CO.,LTD.



LIVI MACHINERY

Give me a land to give you a farm



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利维机械
LIVI Machinery



LIVI machinery business philosophy:

Honesty and trustworthiness, mutual benefit and win-win cooperation

Enterprise vision:

Be an integrator of Global Animal Husbandry Industry Chain.

Customer Vision:

Become the partner of the customer's animal husbandry and escort the customer's animal husbandry business.

Service philosophy:

"Build up LIVI brand, make the customer satisfied " as our eternal conduct value, constantly update our technology, customer service and innovation.

Enterprise Culture:

Customer First
Pursuit of Excellence
Innovation and Entrepreneurship
Effective Execution
Embrace Change
Combustion Positive Energy

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Company Profile

Zhengzhou LIVI Machinery Manufacturing Co.,Ltd.

LIVI Machinery is a top-rank enterprise of poultry farm equipment, the largest automatic poultry farm equipment manufacturer with the integration of product R&D, engineering design, manufacturing installation and service strength in central China. In 2014 our products passed the ISO9001 certification and ISO14001 certification. We provide the security and quality assurance for customers.

Committed to customers' satisfaction, LIVI Machinery offers a large range of poultry farm equipment products. We are mainly engaged in the following automatic equipment, such as automatic feeding system, automatic drinking system, automatic manure removing system, automatic egg collecting system, automatic ventilation system, automatic environmental control system, automatic egg packing system and other related products for sale, which will meet and exceed your needs and expectations.

Our products have been exported to more than 60 countries and regions in Africa ,Asia, Europe, South and North America, and Oceania Countries. Our poultry equipment won the trust of our customers and earn high praise from our clients and good reputation in the society.



Customized project design for large scale farm

According to your plan, we provide you with the all-inclusive design and solutions, including large-scale, medium-sized project as well as old farm expansion project.



This is our design plan for 1 million layer chicken farming

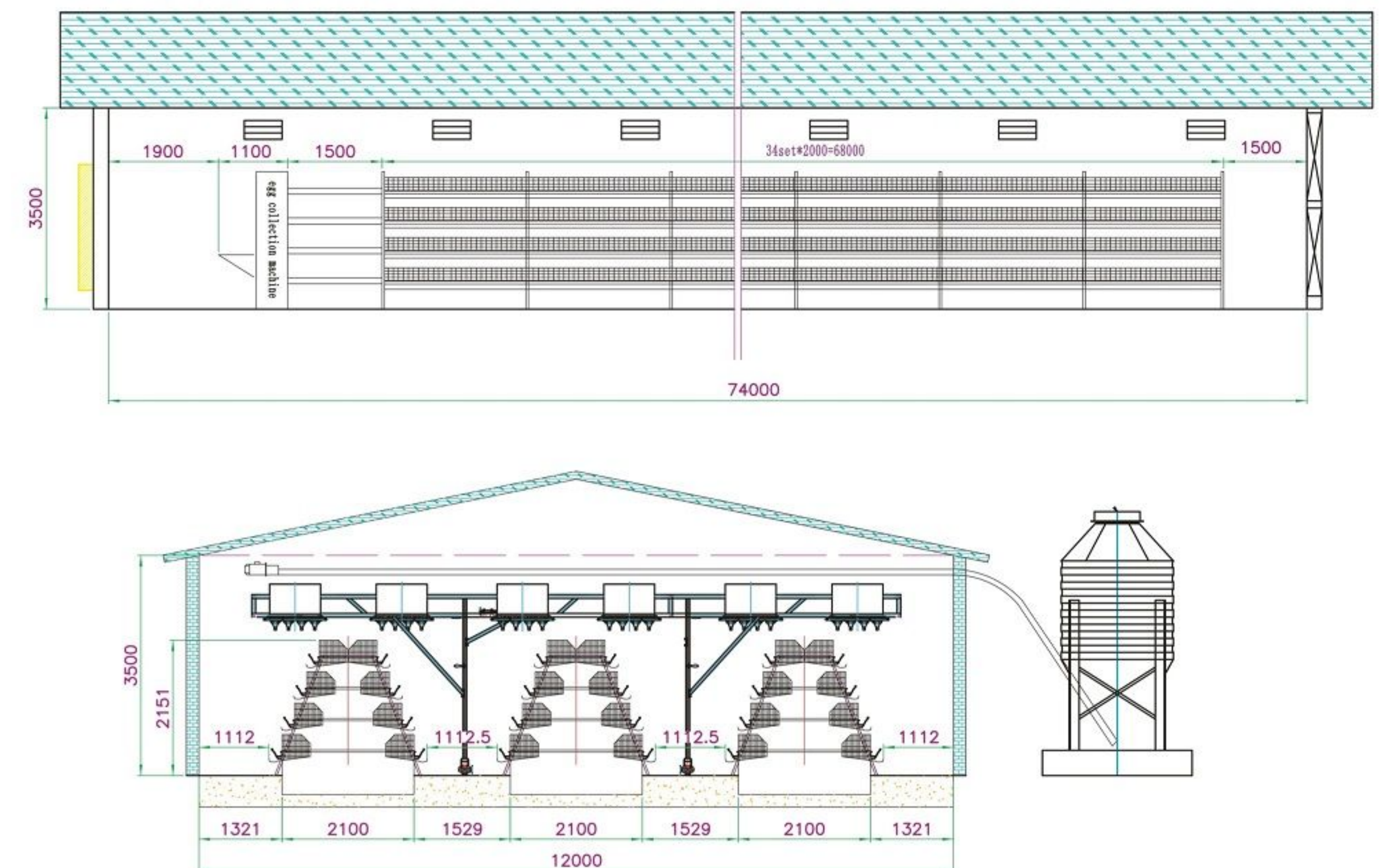
A type layer rearing equipment



A type layer rearing equipment :

The A-type layer farm equipment is equipped with automatic feeding, drinking, egg collecting and manure removing system, which is easy to operate and save labor, suitable for middle-scale poultry farms.

type	Model	Birds Qty / Door	Birds Qty / Set	Specification
A-Type	3-Tier 4-Door	4pcs	96pcs	1950mm*350mm*380mm
	3-Tier 5-Door	3pcs	90pcs	1950mm*350mm*380mm
	4-Tier 4-Door	4pcs	128pcs	1950mm*350mm*380mm
	4-Tier 5-Door	3pcs	120pcs	1950mm*350mm*380mm
	4-Tier 5-Door	4pcs	160pcs	1950mm*450mm*410mm



Layout Explanation : (Unit:mm)

1. A type 4-tier 5-door layer cage. 1950mm*450mm*410mm. 160pcs
2. Chicken shed inner size 74M*12M*3.5 M
3. 3 rows/ shed, 34 sets of chicken cages/ row, 102 sets totally
4. 16320 pcs of layers in total

Features:

1. Simple structure, low cost, good ventilation, better for the beginner.
2. The material of cage mesh adopt hot dip galvanizing process which is generally 3-4 times the service life of cold galvanizing, and have a lifetime of up to 15-20 years.
3. With Automatic feeding, automatic water, automatic egg collecting and manure removing characteristics, A type cage can save energy and labor costs, less men intervention of the chicken shed also could keep a health environment for the chicken.
4. The newly designed feed trough can help to save feed costs, the feed quantity provided to layers can be adjusted.
5. Automatic equipment can save labor cost and increase working efficiency, easy to use and maintain.

H type layer chicken cage

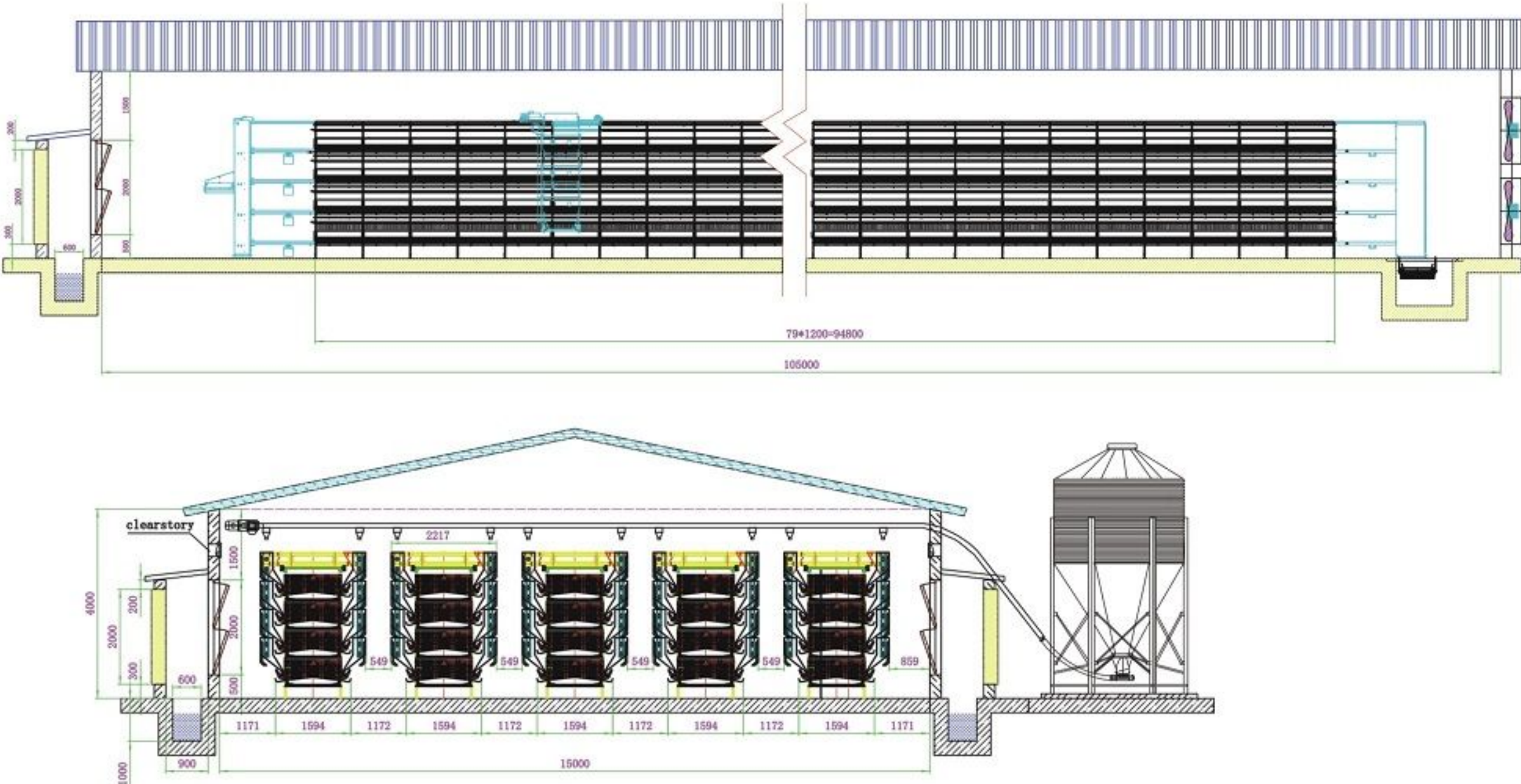


H type layer chicken cage:

The H-type layer equipment can meet the basic biological behavior requirement of poultry birds. Now it is the most popular automatic layer equipment with highest-level scientific technology and it represents the development orientation of large-scale and intensity for the poultry farming in China.

Features:

- 1.Cage mesh material uses high quality steel welded together by a special process. The surface adopt hot dip galvanized zinc process for strong and durable, smooth surface, low broken egg, long service life up to 15-20 years.
- 2.Realizing full automatic feeding, watering, dosing, egg collecting and manure removing, environmental controlling, reduces labor intensity, saves energy and costs. less men intervention of the chicken shed also could keep a health environment for the chicken.
- 3.H-type equipment has a high density rate, which could save the land and reduce the investment rate.
- 4.Adopting full enclosed breeding type can achieve the separation of human and chicken, less chance of disease through infected exotic chicken disease, prevent cross infection, reduce the cost of drug use.
- 5.Considering the high density and large quantity of chicken in one shed, the chicken shed is better to be closed type. Automatic control of temperature and ventilation can meet the requirements of the birds.



Layout Explanation: (Unit:mm)

- 1. H type 4-tier 2-door layer cage: 1200*600*430mm
- 2. Chicken shed inner size :105M*15M*4M
- 3. 5 rows/ shed, 79 sets of chicken cages/ row, 395 sets totally
- 4. 50560 pcs of layers in total

type	Model	Birds Qty / Door	Birds Qty / Set	Specification
H-Type	3-Tier 2-Door	8 pcs	96 pcs	1200mm*600mm*430mm
	4-Tier 2-Door	8 pcs	128 pcs	1200mm*600mm*430mm
	5-Tier 2-Door	8 pcs	160 pcs	1200mm*600mm*430mm
	6-Tier 2-Door	8 pcs	192 pcs	1200mm*600mm*430mm
	3-Tier 4-Door	6 pcs	144 pcs	1800mm*600mm*430mm
	4-Tier 4-Door	6 pcs	192 pcs	1800mm*600mm*430mm
	5-Tier 4-Door	6 pcs	240 pcs	1800mm*600mm*430mm
	6-Tier 4-Door	6 pcs	288 pcs	1800mm*600mm*430mm

Broiler cage system



The Features of Automatic Broiler Cages

1. Broiler equipment could feed the broiler from one day to about 42 days.
2. Number of chickens each unit area far exceeds the deep litter system, saving large space.
3. Completely isolation between manure and chicken decreases the chance of disease through infected feces, and lower mortality rate.
4. Main components of the broiler cage system consist of hot-dip galvanized sheet and wire material, which is elected form the metal body to avoid corrosion or rust on the cages of chicken farm.
5. The two layers are separated which is good for ventilation and improves the breeding quantity.

Broiler cage size: 1050*800*420mm

17 birds per door, 1 door per piece. one set include 6 pieces. one set feed 102 birds in total.

The Details of Broiler Equipment



Broiler Feed Line

Feed pan is made for broiler cage, making sure all broilers have sufficient feed.

Automatic lifting drinking system

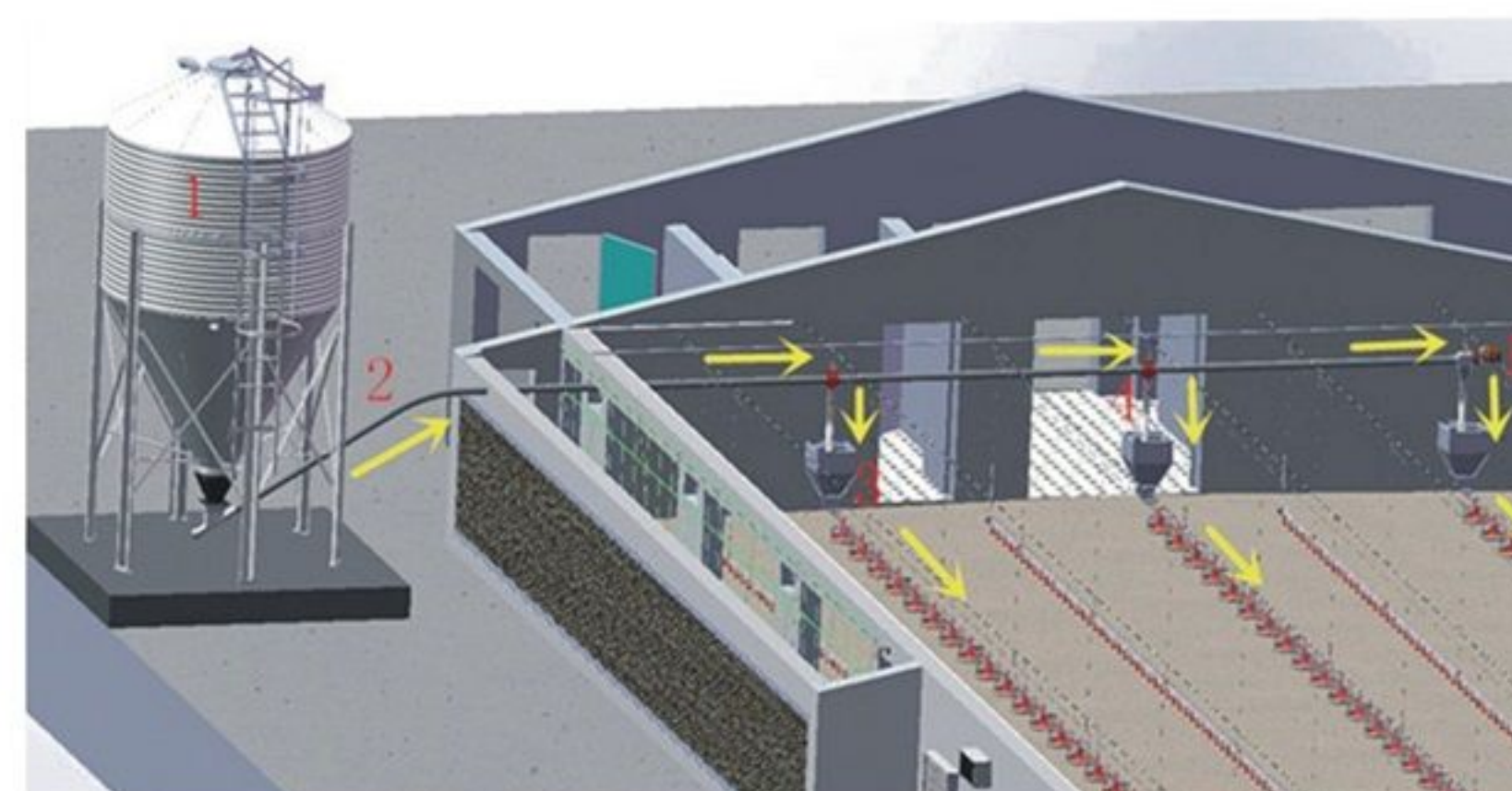
Easy to operation and can adjust waterline height according to age of chicken, which improve the chicken's posture while drinking. It can keep elder chicken away from touching the nipple, decrease dripping, and keep the manure dry.



Lighting System

The LED light has a lower power consumption specially used for broiler cages and the light can be adjusted to meet the demand of the different day old birds.

Broiler pan feeding system



Layout of main feeding system

- 1.silo
- 2.pvc tube
- 3.feed line
- 4.drop tube
- 5.drive motor

1. Pan feeding System for Broiler

A: Vice Hopper

Capacity:90-120KG

Material :hot dip galvanized sheet

Thickness:1.00mm

B: Driving Motor

Voltage:380v 50hz 3 phases

Rated power:0.75-1.1kw



C: Feed sensor

German Imported, installed at the main feeding line, sub feeding line or below the vice hopper.

D: Feeding pan

a: It have 14 grid and 16 grid feeding pan, diameter is 360MM, pure plastic material.

b: It can adjust feed amount in pan easily and effectively.

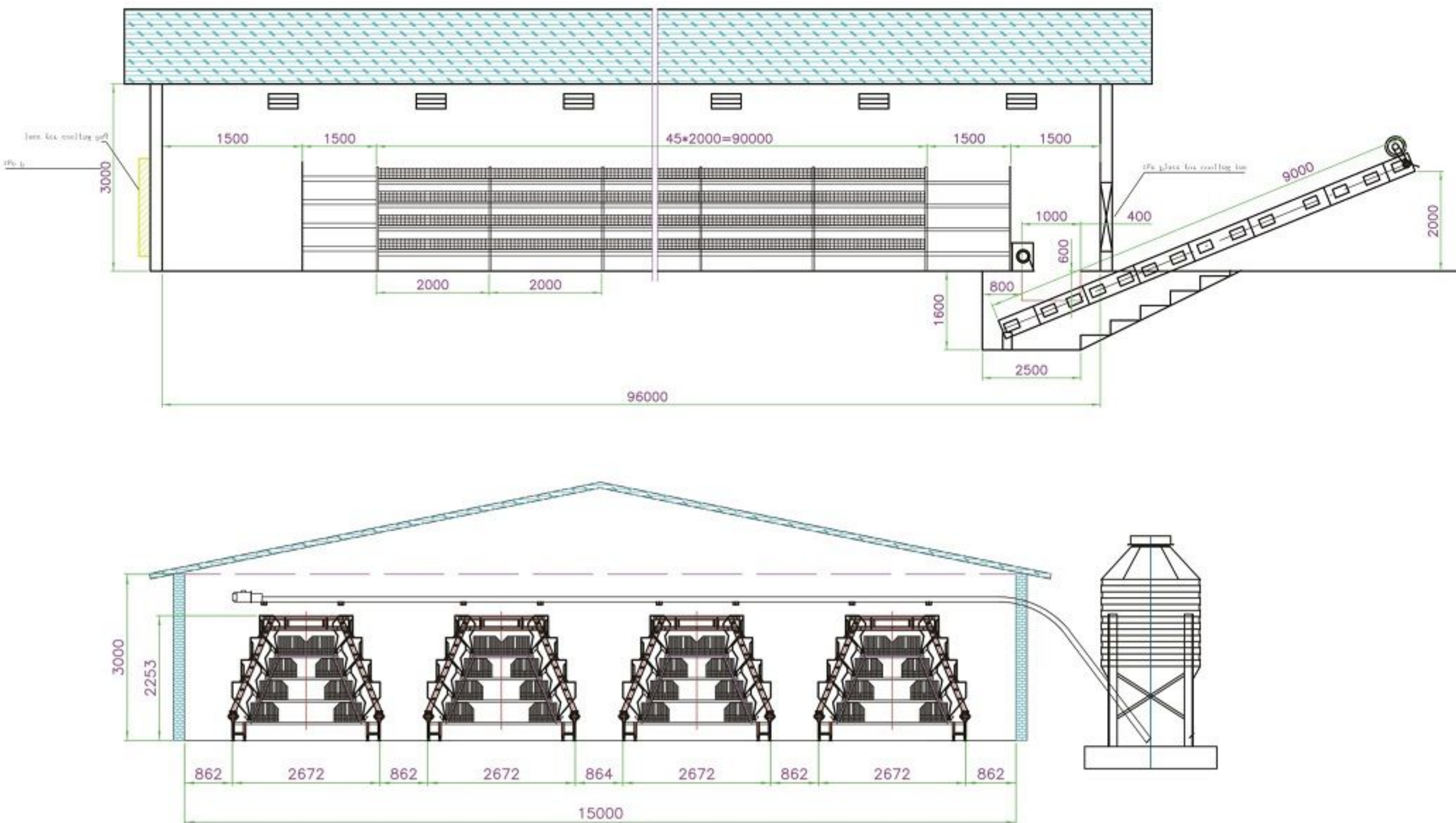
c: It is easy and convenient to clean.

d: Sub feeding line pipe: Hot galvanized pipe , Diameter:45mm (usually 3-4 feeding hole on pipe).

A type pullet Rearing equipment

A type rearing system

- 1.Easy operation and durable.
- 2.Completely adopted the hot dip galvanizing treatment. Its durability can be ensured.
- 3.Simple structure and low energy consumption.
- 4.It is suitable for small scale farm.



Layout Explanation: (Unit:mm)

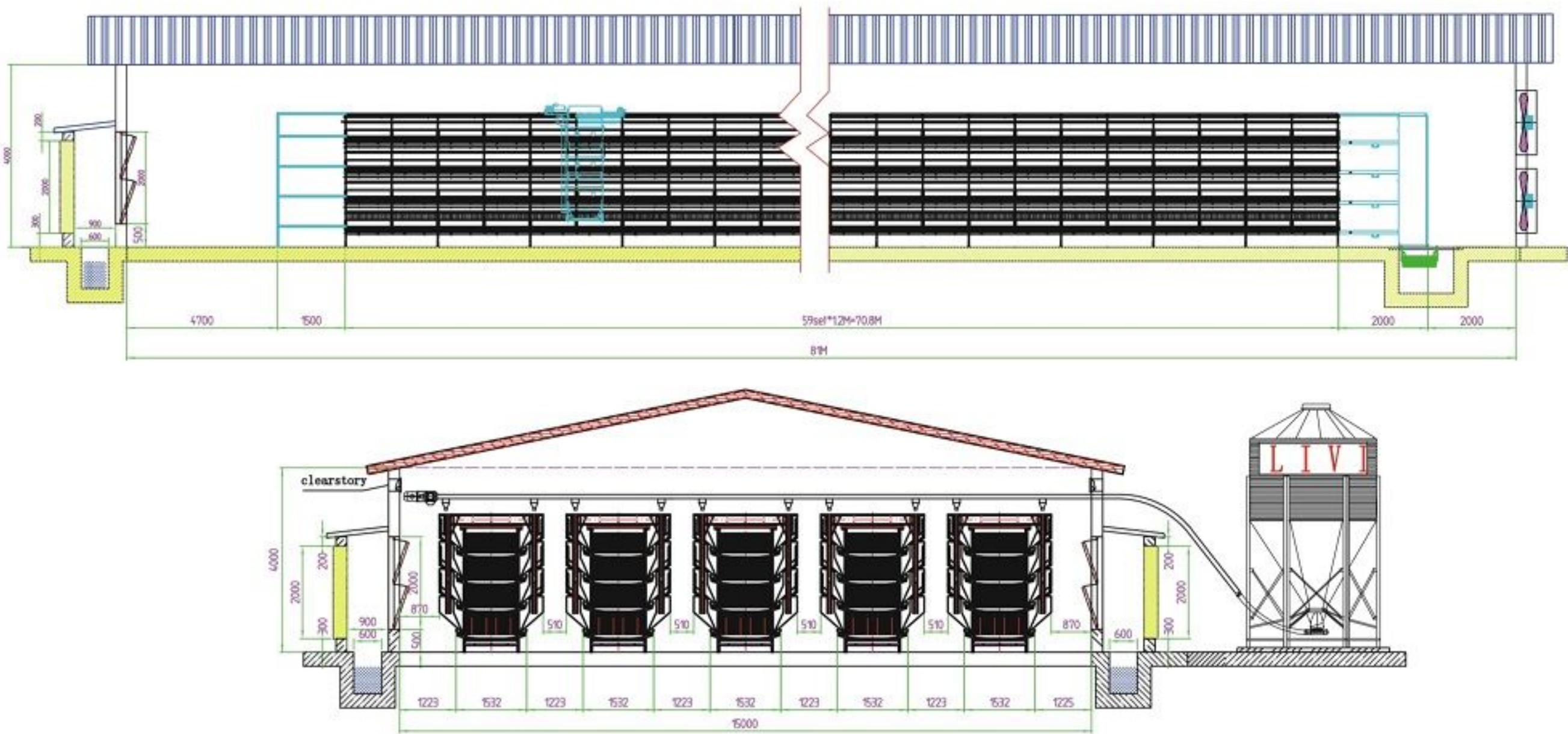
- 1. A type 4-tier 3-door cage: 1950*500*350mm
- 2. Chicken shed inner size :96M*15M*3M
- 3. 4 rows/ shed, 45 sets of chicken cages/ row, 180 sets totally
- 4. 43200 pcs of chicken in total

Pullet chicken cage						
type	Dimension <mm>	Weight	Tier	Door	Pcs / Door	Pcs
A-Type	1950*500*350	53Kg	3	3	8-12	144-216
	1950*500*350	71Kg	4	3	8-12	192-288

H type pullet Rearing equipment

H type rearing system

- 1. According to the growth characteristics of chicken seedlings of different childbearing age, the special humanized design of cage ensure the growth of chicken seedling and reduce the investment cost for customers.
- 2. Reasonable feed position and Number of chickens each unit area , can ensure the evenness of the chicks.
- 3. Its adjustable drinking system can meet the daily drinking demand of one-day baby chick.
- 4. Automatic belt manure remove system reduces labor intensity, dry and sanitary.
- 5. Intelligence environmental control system keeps the room at a fixed temperature and comfortable, which increases the survival rate and growth speed of chicken.



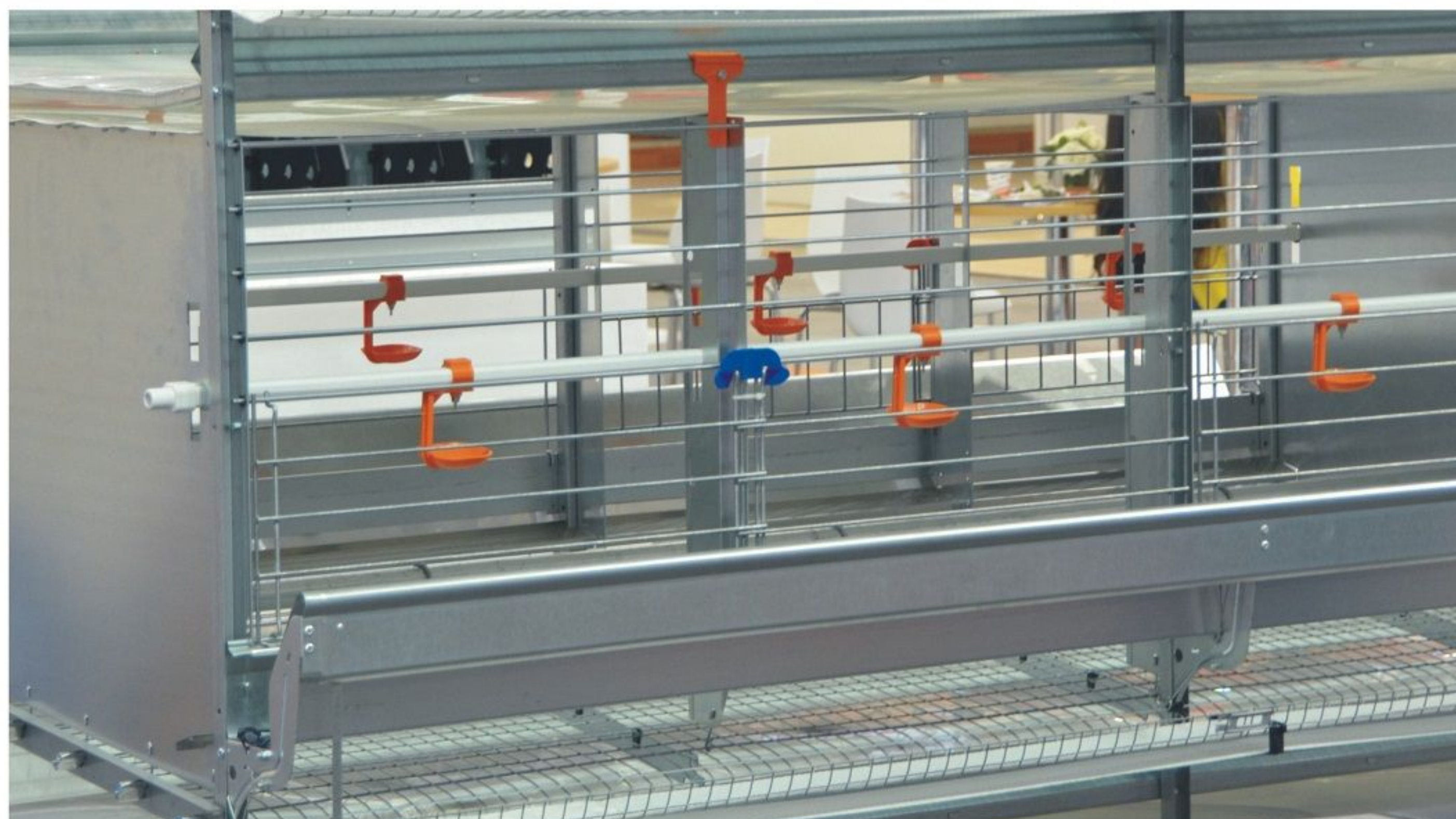
Layout Explanation: (Unit:mm)

- 1. H type 4-tier 2-door pullet cage:1200*600*4200mm
- 2. Chicken shed inner size: 81M*15M*4M
- 3. 5 rows/shed, 59 sets of chicken cages/row,295 sets totally
- 4. 51920 pcs of chicken in total

Pullet chicken cage						
type	Dimension <mm>	Weight	Tier	Door	Pcs / Door	Pcs
H-Type	1200*600*420	54Kg	3	2	21 - 23	126-138
	1200*600*420	72Kg	4	2	21 - 23	168-184
	1620*570*330	33Kg	4	2	15-20	90-120

Automatic drinking system

- 1、High-quality water drinking cups, pressure regulating valves and water drinking nipples can effectively prevent the water leakage and drinking system adopt the closed piping system, which can minimize the water pollution.
- 2、360-degree drinking nipples provide adequate drinking water for poultry at all stages.
- 3、The automatic drinking water system mainly adopts the steel ball drinking nipple. It uses imported high-grad stainless steel, POM resin, and APS engineering material, which is wearing resistant, and the durability can be up to 15 years.



Automatic feeding system



1. Automatic feeding machine can be chosen between gantry and ladder feeding machine. Gantry type feeding machine is a relatively economical and practical machine with simple operation, remote control walking character, easy to manage.
2. Mechanical transmission device running smoothly, low noise, long service life
3. With the use of automatic control, the feeding system can adjust the amount of material.
4. Feed car with arched structure, high carrying capacity, small compression deformation.
5. Saving manpower, saving feed, greatly improving the efficiency of large-scale farming.

Egg collecting system



This automatic egg collecting machine including imported equipment, pick up egg plant, export device, buffer device, transmission device, sprocket, and the lifting chain, described by a number of egg pick up eggs device connected in parallel by the claw group down the chain above, The equipment and systems with anti-slip and without damage the egg function, can reduce the human and material expenses, and for large chicken farm.

1. Collection belt system – The belt is made of polypropylene yarn with the features of corrosion-resistant and antibacterial. And it can also be cleaned by water directly.
2. Perfect roll out angle of the bottom mesh minimize the breakage.
3. Central egg collecting system- It has a powerful ability to collect eggs, collecting up to 20000 eggs per hour, collecting and conveying eggs between different chicken sheds.
4. Suitable for all types of chicken cages.

Manure removing system



The conveyor belt type is suitable for both A type cages and H type cages, which can reduce the labor intensity and labor cost, keep the chicken shed dry and clean. Each row needs a set of manure removing machine. This type is more suitable for large scale farming.

The manure removing belt we use is high quality PP material (polypropylene). The thickness of the manure removing belt is 1.1mm. The manure system is designed with pressure rollers and rubber rollers, which reduces the problem of motor idling and deviation. It can be used for a long time without adjusting the belt. The motor power is 1.5-2.2KW, and the walking speed is 2-4 meters per minute.

The scraper type is suitable for A type cages, which can clean two or three rows. For the starters, this type is a good choice. It can not only save some labor cost, but also save some investment in the whole project. The cleaning speed is 6-10m per minute.

Environment control system



The Equipment from LIVI Machinery are suitable for large scale and intensive farming. According to customer's requirement, we can supply various types of smart poultry equipment.

Central integrated control system

LIVI poultry management system is a modular system which manages all aspects of a poultry house, such as climate, temperature, feeding/drinking/ weighing and ventilation system. The management computer is the core of the poultry farm for you to monitor the whole poultry farm easily.



1. The cooling pad - The cooling pad is made of special corrugated fiber paper. It is designed with a certain angle and corrugated fiber construction on surface, which can provide sufficient heat exchanging area for the air and water.

2. Ventilation fan – The fan consists of outer frame, blade, detachable shutter, cross type fan column, integrated belt wheel and flange sheet.



3. Cross wind window – The window is made of special selected high-quality engineering plastic, with high strength and long service life, together with superior anti-aging and anti-UV performance.

4. Air deflector – This system can adjust the wind speed and direction, thus the cold air will not reach chicken directly, which can effectively prevent the phenomenon of cold stress in chicken.



Corollary



Incubator

Capacity				Voltage	Material
Chicken	pigeon	duck	goose	220V	thickened steel plate
5280	6720	3780	1920		
9856	12544	7056	3548		
16896	21504	12096	6144		
22528	28672	16128	8195		

Equipment



Egg Grading Machine

capacity	Precision	Voltage	Function
3000-5000pcs/hr	±0.5g	220V	grading eggs by weight
10000pcs/hr			
25000-30000pcs/hr			



Egg Tray Machine

productive power	Forming machine	Drying system
1500pcs/hr	3molds*4faces Rotary type	Single-Layer Metal
5000pcs/hr	5molds*8faces Rotary type	Single-Layer Metal
12000pcs/hr	5*8&5*8 Double-roller	6 Layers Mental



Pellet Machine

capacity (Kg/hr)	power consumption	installed Power(kw)
800-1200	75	132
1500-2000	90	165
2000-2500	380	469
3000-3500	570	712



Feather Removal Machine

size<cm>	weight	power<w>	No.fingers	worktate<one time>
60*60*87	50kg	1500w	106pcs	4-5chicken
68*67*92	60kg	2200w	114pcs	7-8chicken
79*80*91	80kg	3500w	147pcs	more than 10 chicken
94*97*92	100kg	3500w	193pcs	more than 15 chicken



Heating System

Product type	gas heater	electricity heater	solar heater
Heating mode	Liquefied gas combustion	Electric energy heating	Solar energy conversion
thermal efficiency	80%	95%	128%
Energy calorific value	24000kcal/m³	860kcal/m³	128.4(J/kg)

Accessories



feed trough



water tank



water pressure regulator



drinking nipple



egg conveying belt



water kettle for baby chicks



manure conveyor belt



feeding pan



cooling pad



air inlet window



water pipe

