

Kaleter



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Poultry Breeding Turnkey Solution

LIVESTOCK AND POULTRY BREEDING

Kaleter

ABOUT US

30+

■ R & D staff

2008

■ Founded in

36.000 m²

■ Production area

100+

■ Patents

1000+

■ Houses built

Company profile

Zhucheng Zhongyu Electrical and Mechanical Equipment Co., Ltd., founded in 2008, covers more than 36,000 m² and employs a 30-plus R&D team. We are a systems provider integrating breeding-process design, product development, manufacturing, installation and after-sales service.

The company holds ISO 9001 quality management certification and European CE certification, is a qualified importer and exporter, and carries more than 40 further international certificates.

Our four business segments are breeder feeding systems, aviary systems, environmental solutions for agriculture and livestock, and livestock and poultry transport trucks. Together they cover front-end transport, mid-stream rearing and back-end manure treatment — the complete poultry-equipment value chain.

Zhongyu products serve nearly 2,000 projects and are exported to the United Kingdom, the Netherlands, Finland, the Middle East, Australia and more than 20 other countries and regions, supplying both domestic and international markets.



Manufacturing strength

Manufacturing factory



Production workshop



Laboratory testing



Management team



After-sales service team



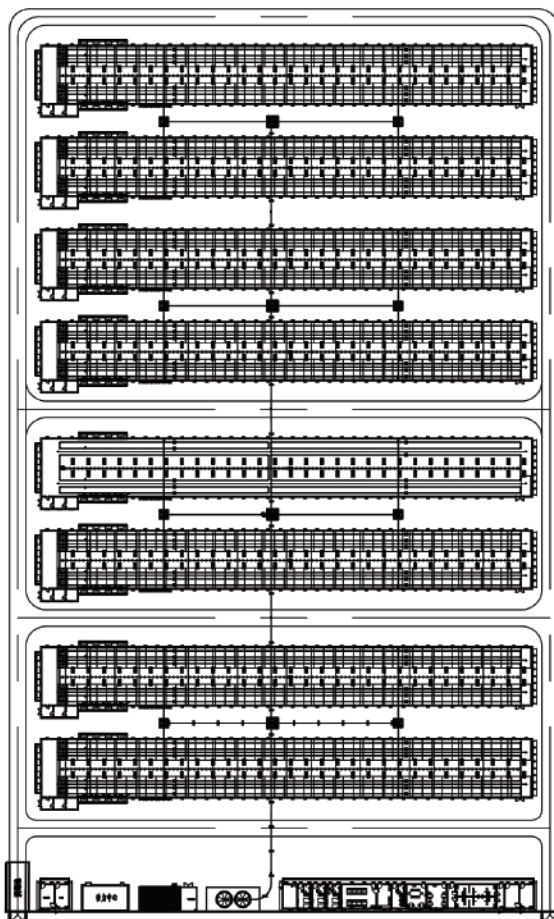
Quality assurance



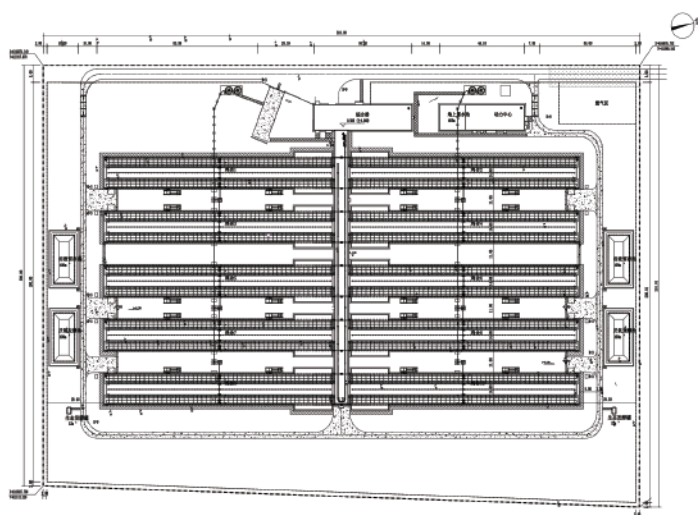
Honors & Certifications



► Farm layout



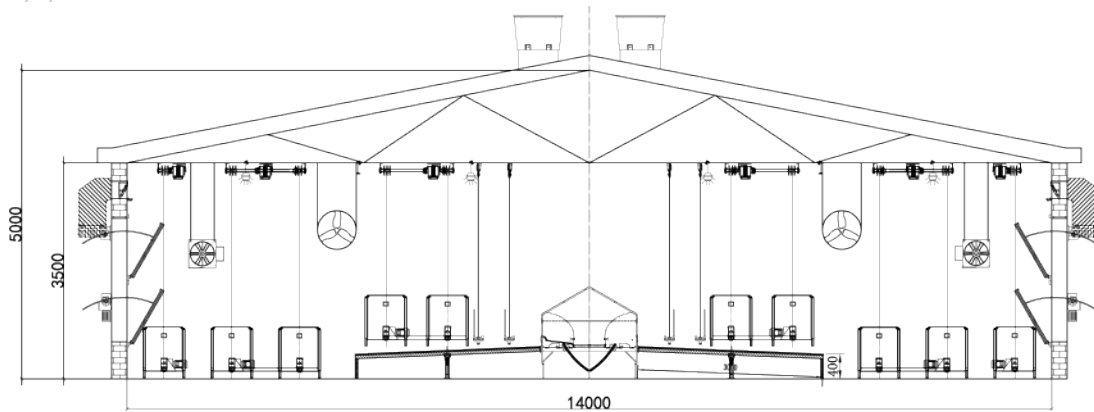
Farm size	8 houses
Capacity	73,000 breeders
House size	120 × 14 m
Stocking density	5.5 birds/m ²



Farm size	10 houses
Capacity	92,500 breeders
House size	120 × 14 m
Stocking density	5.5 birds/m ²

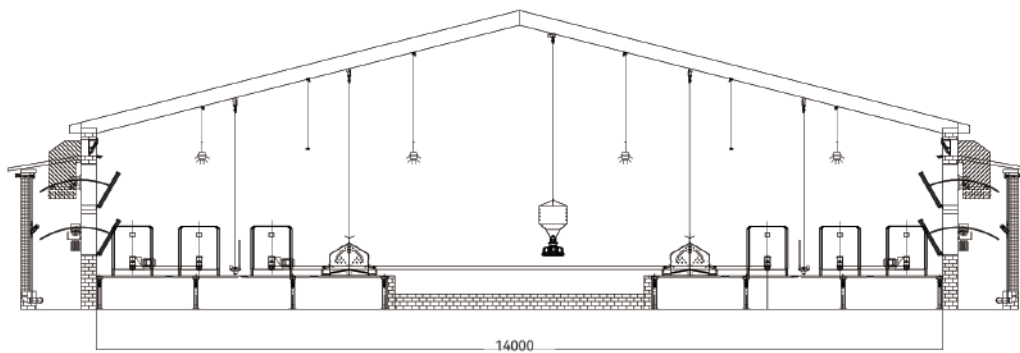


➤ Breeder house layout — one high, two low



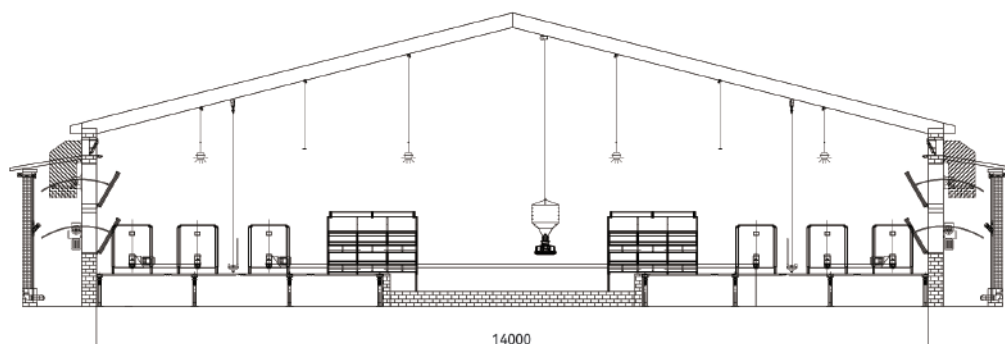
- ① Three female chain feeding circuits ② Two male chain feeding lines
- ③ Four automatic drinking lines ④ Automatic laying nest system ⑤ Plastic slat flooring

➤ Breeder house layout — two high, one low



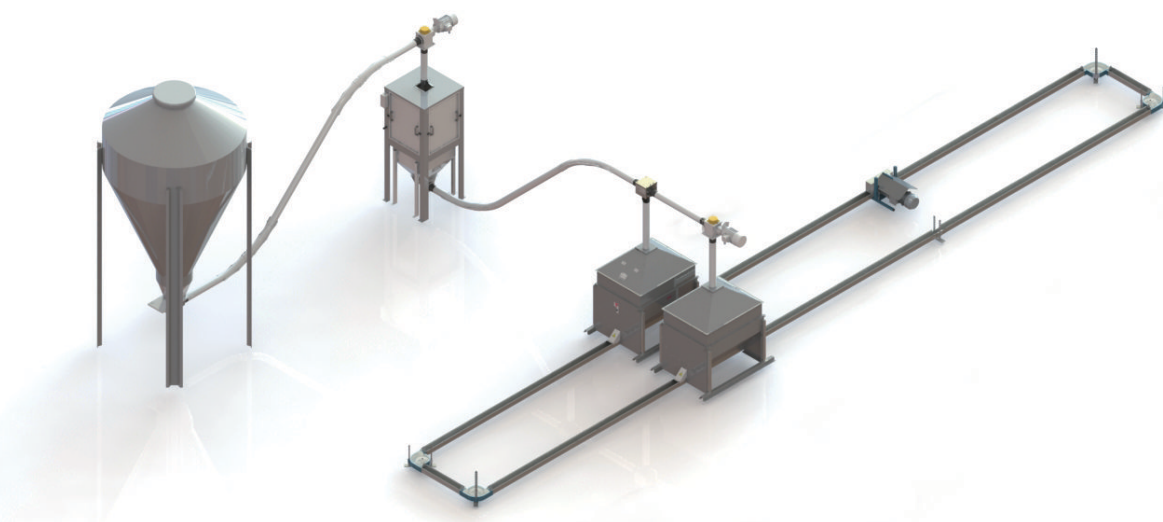
- ① Three female chain feeding circuits ② One male auger pan feeding line
- ③ Two nipple drinking lines ④ Automatic single-tier nest system ⑤ Plastic slat flooring

➤ Breeder house layout — two high, one low



- ① Three chain feeding circuits ② One male auger pan feeding line ③ Two nipple drinking lines
- ④ Manual nest system ⑤ Plastic slat flooring

Central feed transport system



Feed silo

- Feed silo capacity: 1.6–33.4 t
- Silo body in 275 g/m² galvanized steel plate sections
- Lower cone angle: 60°



Feed transport

Specification	Feed transport capacity
Φ75	1.2t/h
Φ90	2t/h
Φ110	3.2t/h



Batch weighing

- The electronic batch weighing system links to the farm's central feeding system.
- Feed moves from central silo to day silo to house hoppers, with accurate feeding all day.
- High accuracy — weighing error ≤1‰, house hopper error ≤3‰ — for a reliable feed supply and better results.



Electric feed falling valve

- Made of SUS304 stainless steel for corrosion resistance and long service life.
- The rotary drop mechanism prevents feed build-up and improves dosing accuracy.
- Position feedback gives clear status of every drop point.
- DC drive — safe and efficient.



Control unit

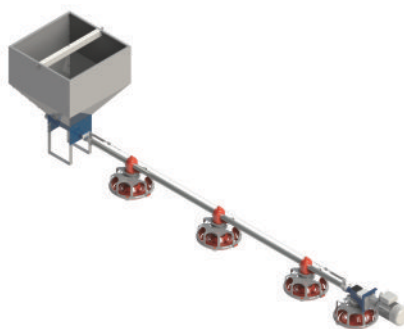
- Control system: touch screen + PLC.

Female pan feeding system



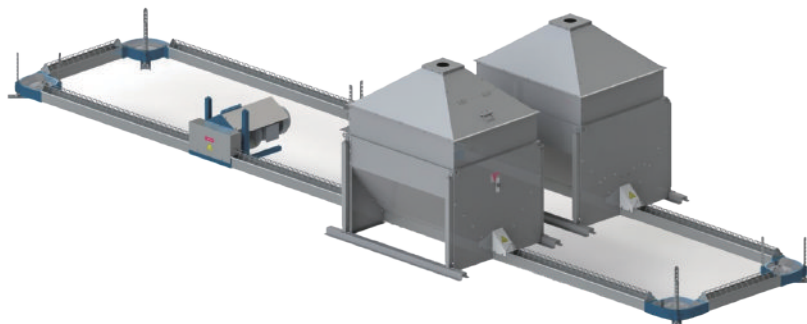
Female pan feeding line parameters	Female pan parameters
Power: 2.2kW	Material: PP
Disc Chain: D35×90	Pan diameter: $\phi 370\text{mm}$
Specification: $\phi 45 \times 1.2\text{mm}$	Grill sections: 16
Feeding conveying speed: 30m/min	Grill spacing: 40–50 mm
	Adjustable gear: 12 gears
	Capacity: 300g–1260g
	Birds per pan: 12–14

Male pan feeding system



Male auger feeding line parameters	Male pan parameters
Power: 1.1kW	Material: PP
Auger: D36.4× D20.4×39.5	Pan diameter: $\phi 370\text{mm}$
Specification: $\phi 45 \times 1.2\text{mm}$	Grill sections: 8
Conveying speed: 6kg/min (275rpm)	Adjust gear: 12 gears, feeding more evenly, with tray fixing buckle to prevent the tray from swinging
Feed volume: 150L–230L	Capacity: 400g–1360g
Disc spacing: 3 meters 3 plates or 3 meters 4 plates	Birds per pan: 7–9
Wire length: up to 130 meters	

Female circular chain feed line



Female circular chain feed line:

Power: 1.5kW/2.2kW

Length of feeding line: The 1×2.2kW circuit has a maximum length of 240 meters.

Chain speed: 36m/min

The 1×1.5kW circuit has a maximum length of 160 meters.

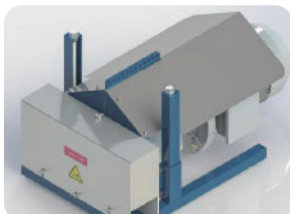
Storage capacity: 2×220kg, 2×250kg, 2×280kg

The 2×1.5kW circuit has a maximum length of 300 meters.



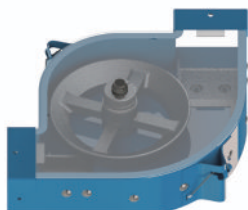
Feed Hopper

- High-grade zinc-aluminum-magnesium sheet, coated 275 g/m² per side.
- Built-in feed volume regulator with 7 hopper settings.
- Feed return wheel, nylon idler and gearing in hardened steel.



Motor

- Direct drive.
- Helical-gear speed reducer — more efficient and maintenance-free.
- The drive unit can sit anywhere on the circuit, with an emergency stop for instant shutdown.



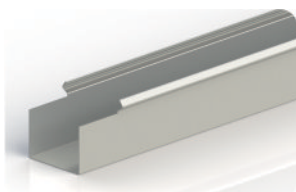
Corner wheel

- Corner wheel in special high-strength alloy steel — hard-wearing for a long service life.
- High-strength maintenance-free axle bearing.
- Anti-static coated outer shell.
- Wheel in 45# cast steel with excellent wear resistance.



Grille

- Aluminum-zinc coated for strength and corrosion resistance.
- High-frequency welded to avoid weld defects — strong seams, high corrosion resistance.



Feed trough

- Roll-formed in one piece from 275 g/m² zinc-aluminum-magnesium sheet — stable and corrosion-resistant.
- Flanged rim design prevents damage from birds during feeding.

Female straight chain feed line



Female straight chain feed line

Power: 1.5kW/2.2kW	Length of feeding line: 1×2.2kW	The max length of feeding line :240m
Chain speed: 36m/min	1×1.5kW	The max length of feeding line :160m
Feed hopper capacity: 1×220kg 1×250kg 1×280kg	1×1.5kW	The max length of feeding line :300m

Male (limited grille type) chain feed line



Male (limited grille type) chain feed line

Power: 1.5kw/2.2kW	Feeding capacity: 1×150Kg, 1×220kg
Chain speed: 36m/min	Length of feeding line: The maximum circuit is 240 meters.

Male (feed trough type) chain feed line



Male (feed trough type) chain feed line

Power: 1.5kw/2.2kW	Feeding capacity: 1×150kg, 1×220kg
Chain speed: 36m/min	The max length of feeding line :240m

Automatic laying nest

- Female egg-laying equipment, the eggs will be centrally transported to the operation room to pick up eggs.
- Main components: egg collecting table, egg nest.
- The top of the egg nest is provided with an anti-perch board, and the black ABS hill plate in the nest is conducive to attracting chickens into the egg nest, and there is no sharp part to prevent injuring chickens and eggs.
- High quality camphor pine pedal is installed above the egg belt, and artificial egg nest cover is equipped.

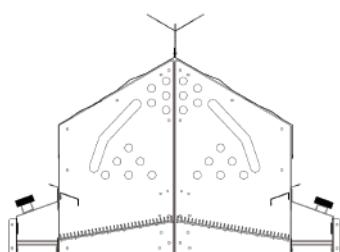
Both sides of the egg outlet automatic nesting box

Dimensions: Length 2240× width 905× height 655mm

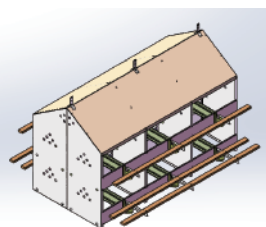
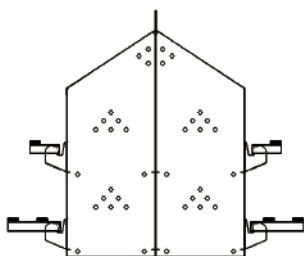
Egg band width: 100mm

Hole size: Width 297× depth 320mm

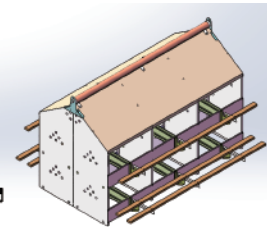
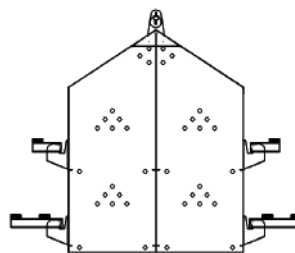
Number of holes: 16 holes/group



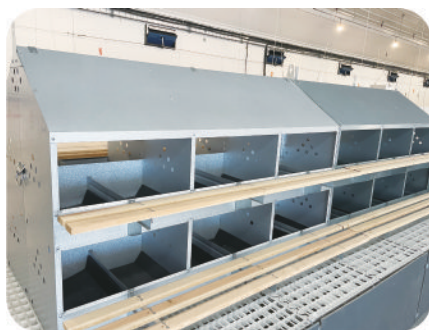
Manual laying nest



(Wire anti-perch)



(PVC pipe anti-perch)



Manual laying nest

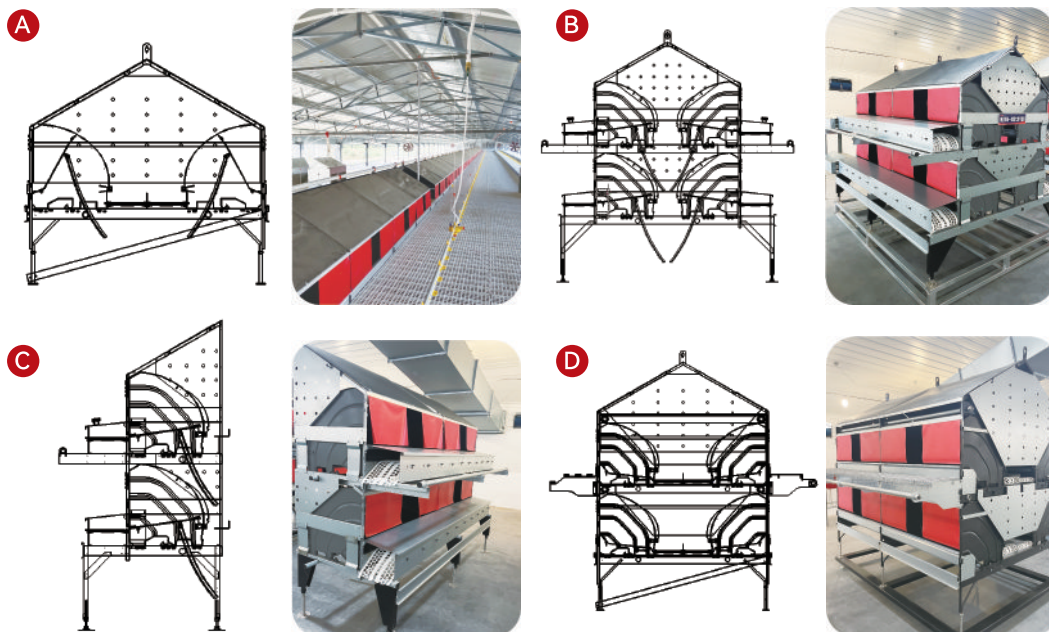
Dimensions: Length 1504 × width 1262(pedal down) × height 1048mm

Hole size: Width 250 × depth 380mm

Number of holes: 24 holes/nest

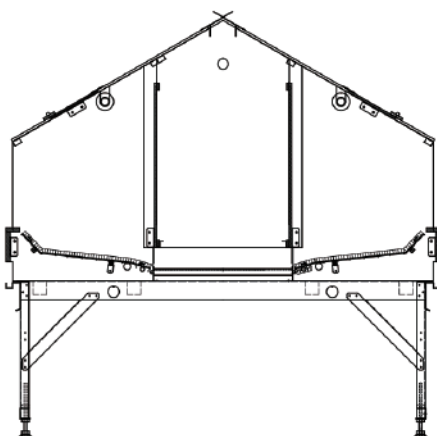
Capacity: 100 birds/group

Large automatic laying nest



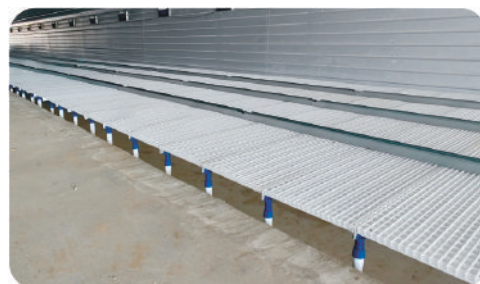
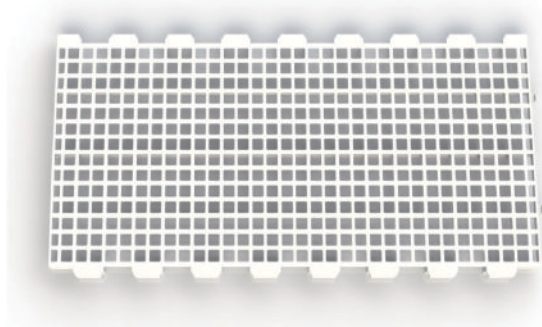
Serial	Overall dimensions	Nest hole size	Holes per nest	Egg belt width	Tiers	Capacity
A	2300×1610×1590mm	1140×490mm	4 holes/nest	250mm	Single tier	240 birds/group
B	2300×2200/2500×2130mm	1140×490mm	8 holes/nest	250mm	Two tiers	120 birds/group
C	2300×1180/1330×2115mm	1140×490mm	4 holes/nest	250mm	Two tiers	240 birds/group
D	2300×2440×2350mm	1140×490mm	8 holes/nest	250mm	Two tiers	120 birds/group

Wooden laying nest



Overall dimensions	Nest hole size	Holes per nest	Egg belt width	Egg collection	Capacity
2328×1592×1545mm	1140×490mm	4 holes/nest	500mm-PP perforated egg belt	Center collection	240 birds/group

➤ Slat floor system

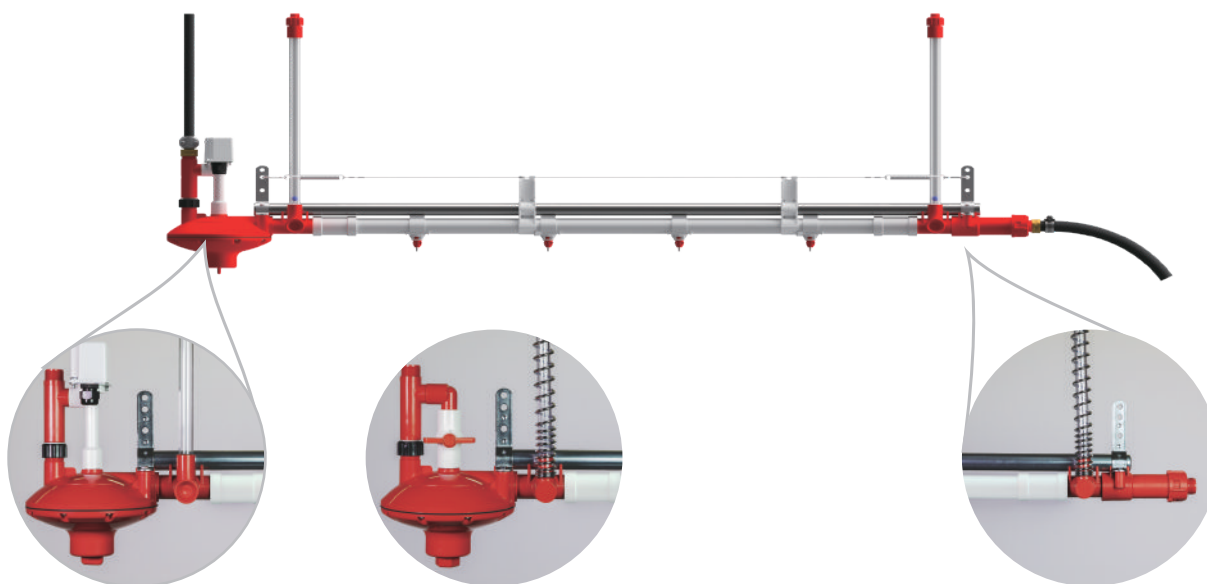


name	specification	hole size	thickness	actual layout size	material
Big hole slat floor	1200x600mm	42x22	40mm	1200x575mm	PP
Big hole slat floor	1000x600mm	42x22	40mm	1000x575mm	PP
Small hole slat floor	1000x500mm	24x22	37mm	1000x508mm	PP
Small hole slat floor	1200x500mm	24x22	37mm	1200x508mm	PP

Slat floor bearing capacity $\geq 200\text{kg/m}^2$

- Designed for breeder chickens, the circular arc design is more convenient for washing and more conducive to dropping manure.
- Polypropylene (PP) pure raw material processing, longer life, anti-aging, anti-UV, color can be customized.
- With splicing bayonet, splicing completed with higher firmness.
- Main components: PP slat floor, support system.

➤ Drinking system





Male drinking nipple

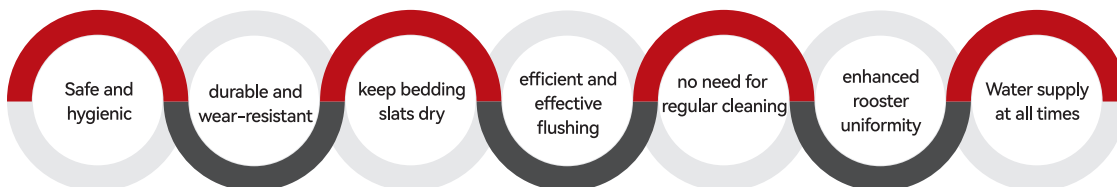
- The male drinker is higher than the female so that the female cannot reach it.



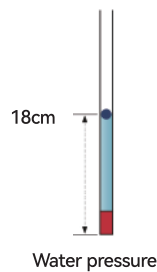
Female drinking nipple

- Female special drinking nipple with shielding is designed to promote water - drinking, reduce spilling, provide a proper angle for the head, and, more importantly, prevent it from being used by male.

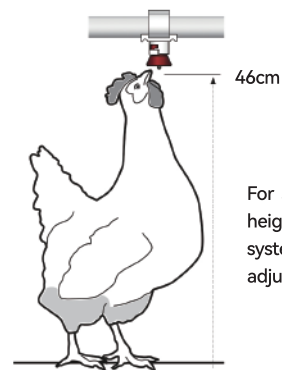
- 1 Corrosion-resistant stainless steel parts have a long service life.
- 2 The double lock design fixes the drinker nipple in the drinker saddle.
- 3 Hardened stainless steel plug-in makes the drinking nipple device durable and more resistant to wear.



Male drinking system



Female drinking system

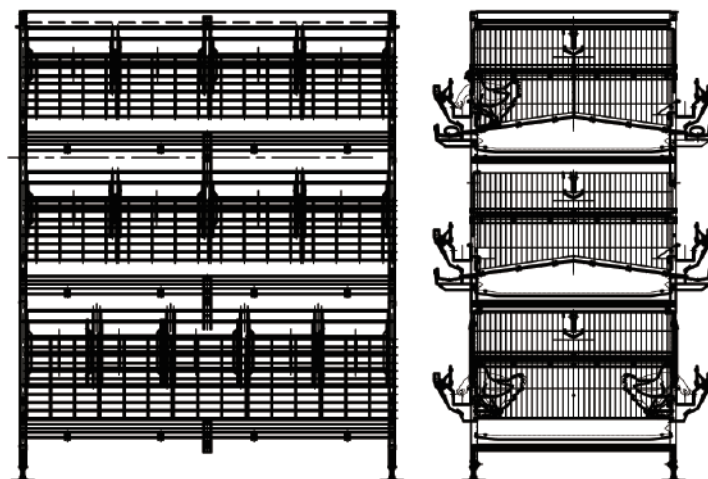


For small female, the height of the drinking system need to be adjusted lower

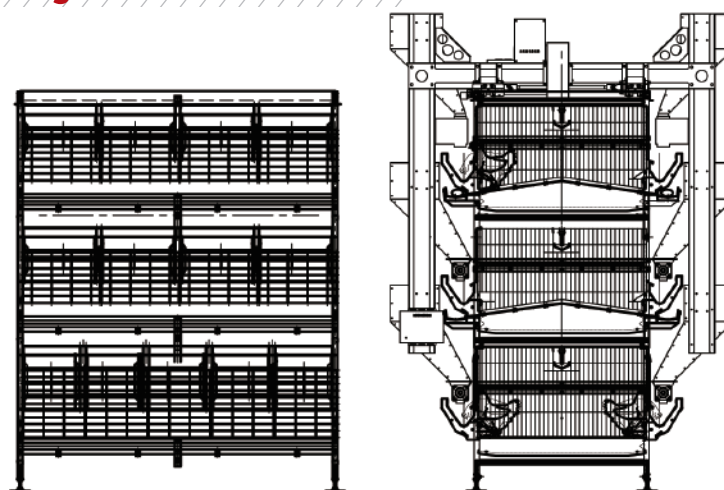


► Breeder Cage Equipment

Chain Feeding

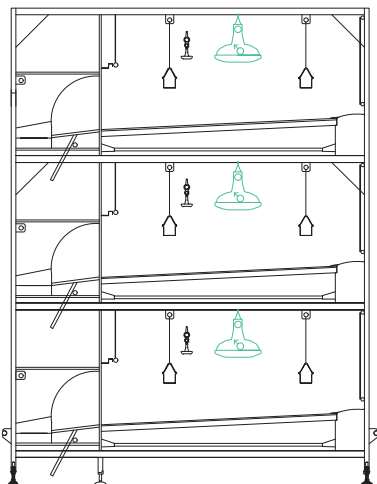


Winch Feeding



- ① The outermost width of the cage body is 1375 mm, the length is 1800 mm, and the height is 2286 mm, with a floor height of 700 mm.
- ② The upper two tiers are hen cages. There are a total of 4 cage compartments in the length direction. Each cage compartment is 450 mm wide, 490 mm deep and 500 mm high, and each cage compartment can hold 2 females.
- ③ The bottom tier is male cage. There are a total of 5 cage compartments in the length direction. Each cage compartment is 360 mm wide, 490 mm deep and 525 mm high, and each cage compartment can hold 1 male.
- ④ Each tier with one drinking line and one water trough.
- ⑤ For feeding, either the winch feeding or the chain feeding can be selected.
 - a. Winch feeding provides precise feed dosing.
 - b. The chain feeding uses a cover plate for shielding. The cover plate is opened during normal feeding to help the chickens feeding. When artificial insemination and semen collection are carried out, the trough is covered to prevent chicken manure from contaminating the feed and ensure the chicken healthy feeding.
- ⑥ For the egg collection of the female cages, customer could choose the egg-blocking wire assembly .
- ⑦ The cage body's reinforcement bars are made of zinc-aluminum-magnesium material, and the cage net is made of galvanized aluminum material.

➤ Breeder natural-mating cages



Category	Specification
Birds per tier per group	48
Nest area per tier	0.835m ²
Drinking lines per tier	1
Female feed lines per tier	2
Male feed lines per tier	1

Vertical egg collection system



Feeding area



Bird activity area



Claw grinding area



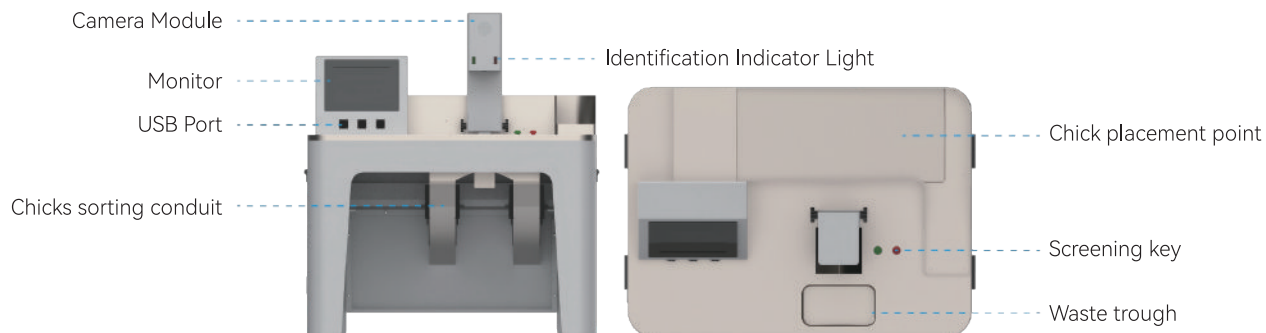
Manure removal system



Laying nests + drinking line



Chick gender identification equipment



	Type	Parameter Data
Basic Specifications	Accuracy Rate:	96% - 99%
	Speed:	1000 - 1600 pieces per hour
	Chicken Species:	Breeder
	Chicken Storage Capacity:	200 DOC chickens
	Dimensions:	1100×800×1235mm
Hardware Parameters	Weight:	80kg
	Power Supply:	AC200 - 240V, 50/60Hz
	Power:	120W
	Camera:	500W High-definition Industrial Camera
	Monitor:	10.4 inches, with touch function
	Indicator Lights/Sound:	Indicator lights and speakers for power on, male, female, full frame, etc.

Feed spreader

- 1 The whole equipment is made of SUS304 stainless steel, which is more rust and corrosion resistant;
- 2 The storage hopper is an integrated conical design, which is convenient for the dumping of feed without feed residue;
- 3 The unique design of the spreader can spread the feed evenly in the set circumference;
- 4 The spreading range is adjustable, the equipment layout is flexible, and can be rationally arranged according to the column layout in the house;
- 5 The drive motor can control speed , manual speed control can be carried out according to the real-time conditions of farming, and parameters can be set according to the requirements of different farming stages to achieve automatic control.

Dimensions	770×770×1950mm (customized)
Equipment power	0.55kw (220v/380v three-phase)
Storage capacity	120L (customized, up to 500L)
Spreading diameter	Adjustable range, maximum diameter up to 25m
Spreading speed	60kg/min



➤ Chick transport vehicle



Truck length	Chicks per load	Detailed reference data
8.2m	52,000	20 trolleys × 26 boxes = 520 boxes — 52,000 chicks in total
9.6m	62,400	24 trolleys × 26 boxes = 624 boxes — 62,400 chicks in total

Main features

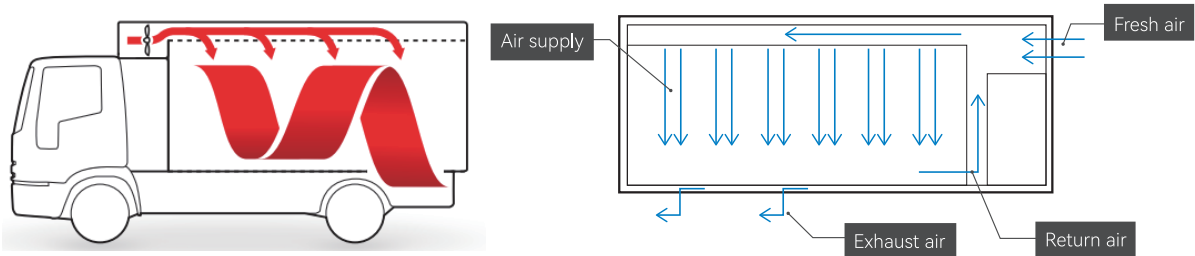
- Good ventilation system
- Appropriate temperature control
- Sturdy carriage structure
- Convenient for hygiene and cleaning.

Main functions

- Ensure the quality of chicks
- Improve transportation efficiency
- Promote the development of the breeding industry

Ventilation mode

- Combined internal and external air circulation;
- Front top fresh air, top-down air supply, front bottom return air and bottom exhaust air.



➤ Egg collecting system

"EGGWAY" can provide three different types of egg chains, suitable for different slope of egg collection belts.

The models of egg chains are as follows:

"N" type standard egg chain - maximum slope Angle 14°

"HS" type high slope egg chain - maximum slope Angle 22°

"VHS" type super high slope egg chain - maximum slope Angle 35°

Our egg-collecting belt is the only conveyor belt that can reach a 35° steep slope without the aid of a plastic plug-in

Outstanding performance and a wide range of applications mean that EGGWAY is perfect for any type of farming equipment system, whether it is a cage system, a flat farming system or an automatic egg nest system.



Model	Capacity (7 m/min at 50 Hz)
Eggway 300	23,000 eggs/hour
Eggway 400	37,000 eggs/hour
Eggway 500	52,000 eggs/hour
Eggway 600	64,000 eggs/hour
Eggway 700	80,000 eggs/hour
Eggway 800	92,000 eggs/hour

➤ Egg grading system



Output: 25,000 eggs/hour, depending on the delivery of front-end eggs

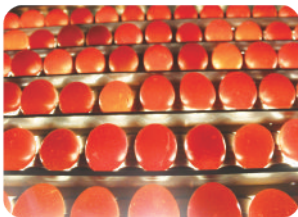
Air consumption: 300 L/min

Power supply: 4KW/3p/380v

Egg tray: Suitable for incubation trays of specified specifications

Air source :0.8-1.0MPa Pressure adjustment to 0.6MPa

Material: Stainless steel 304



Full column light inspection

- The eggs are transported and rotated by the conveyor belt to achieve an orderly arrangement.
- Using special light source and mechanical structure, the egg is transmitted, substandard eggs such as broken, cracked and impurities are checked;



Electronic grading

- A fully automatic weight grading system with an outlet roller conveyor, the grading system automatically divides the eggs into 3 levels according to different weights according to the needs of customers, and transported to the corresponding outlet: extra small eggs and extra large eggs are transported to the manual collection table, and the specified gram weight eggs are transported to the automatic loading platform.



Head alignment

- The eggs are sized and adjusted by a flexible device during inlet transfer, unified big head facing up, the accuracy rate can reach 99.8%;



Egg loading machine

- Using a set of automatic control system, the eggs of different grades are automatically loaded into the specified specification hatching tray;

CP Group Hengshui

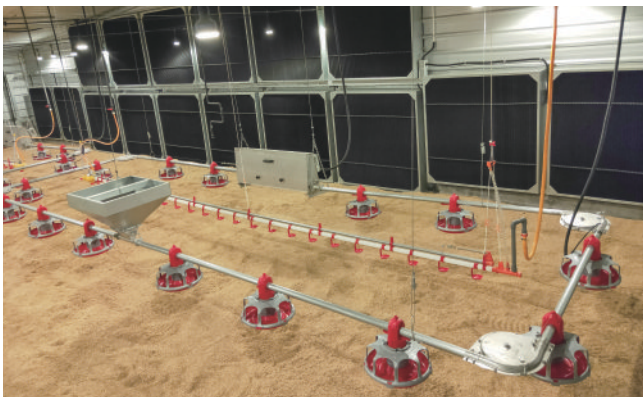
Project introduction: Hengshui CP Group 100 million broiler whole industry chain project, located in Hengshui City, Hebei Province; The project has a total of 5 breeder chicken farms, 10 chicken houses per farm, the size of chicken houses is 120x14m, and 100,000 broiler breeders are stored in each farm.



Sunner

Project introduction: Undertake the construction of grandparent breeder farms, with a total of 11 farms ,42 houses. The size of each chicken house is 120×16m.

Undertake the construction of parent breeder farms: with a total of 12 farms,122 houses. The size of each chicken house is 120×14m.



CP Group jilin

Project introduction: Jilin CP Group 100 million broiler whole industry chain project, located in Changchun City, Jilin Province; The project has a total of 5 breeder chicken farms, 6 chicken houses per farm, the size of the chicken house is 120*28m, and 120,000 broiler breeders are stored in each farm.



Jinghai Poultry Industry

Project introduction: The project is located in Nantong City, Jiangsu Province;

The Rudong project has built a total of 7 parent stock broiler breeder farms, with 108 chicken coops in all. The size of each chicken coop is 120 * 15 meters. The breeder stock scale is 1 million sets. In total, the construction projects under this company amount to 200 chicken coops.



Wens Group

Project introduction: The project is located in Lianyungang City, Jiangsu Province;
The project has built 4 parent stock broiler breeder farms, a total of 48 chicken houses, 12 houses per farm, the size of the chicken house 120x15m, and the breeder chicken stock scale of 430,000 sets.



Xiantan Co.,Ltd.

Project introduction: The project is located in Weifang City, Shandong Province;
The project have build 150 chicken houses, the size of which is 106x14.5m, and plan to store 1 million sets of parent stock breeder chickens.



Zhucheng Waimao

Project introduction: The project is located in Weifang City, Shandong Province;
Construction of 14 ancestral broiler breeder houses, the size of chicken houses 120x14m, a total of 70,000 sets of ancestral broiler breeders;

22 houses of parent stock broiler breeder , chicken house size 110x14m, storage 180,000 sets of broiler breeders.



National projects



