

CONNECT

CONNECT

TURNKEY SOLUTION FOR POULTRY FARM PROJECT



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POULTRY HOUSE EQUIPMENT

**CONNECT GROUP
FOR POULTRY PROJECT**

www.connectmachinery.com

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COMPANY PROFILE



To CONNECT customers' needs in providing turnkey solution for Poultry project !

CONNECT is the exclusive turnkey poultry project provider in China to build advanced poultry project including slaughterhouse, rendering plant, chicken houses, feed mill and its related poultry field project. Trademark of CONNECT is widely used and accepted by the worldwide clients. The service range are including project consulting, designing , equipment manufacture, installation and after service. All products are manufactured according to EU. Standard, and highest world quality standards

CONNECT has five major manufacturing base in China, the agent and distributors are spreading many countries worldwide. We are working together to build excellently projects with high quality equipment and supply best- after sale services to all customers.

CONNECT group cage and breeder floor system and rendering equipment are the leading and National standard drafting and build membership of CN Agricultural Engineering department, and CN Animal Husbandry Association, and Equipment standard drafting company in CN broiler breeding industry group standard, animal and poultry waste rendering equipment standard drafting company in CN Agriculture rendering field.

Group including advanced manufacturing equipment, including EU. High precision manufacturing equipment which keep the unique and high standard of products. Owns more than 500 patent products technology and has established cooperative relationships with many universities and vocational colleagues, and has our own technical research team and equipment research and biology laboratory.

Through continuous R&D and innovation cooperation, the companies are always customer-oriented and continuously develops products that meet customer' individual needs. With Advanced product design concepts, advanced production technology, exquisite production technology ,excellent product quality, and sincere after-sales services, We win the width recognition of customers and partners.

VISION

In the more competition and fast poultry business growing conditions from worldwide, how to keep the leading position in poultry project builders, CONNECT firmly following the four optics.

CLEAR MISSION

To consider for customers, maximum do what ever clients request, build high quality project and try best to save investment for clients. With great supporting on technical and project civil work guiding ,and after service!

CONSTANT INNOVATION SPIRIT

Keeping the great competition of products,we take technical Innovation as our company spirit,which consider from animal welfare, healthy,environmental protection and energy saving.

Modestly to learn advanced technology.

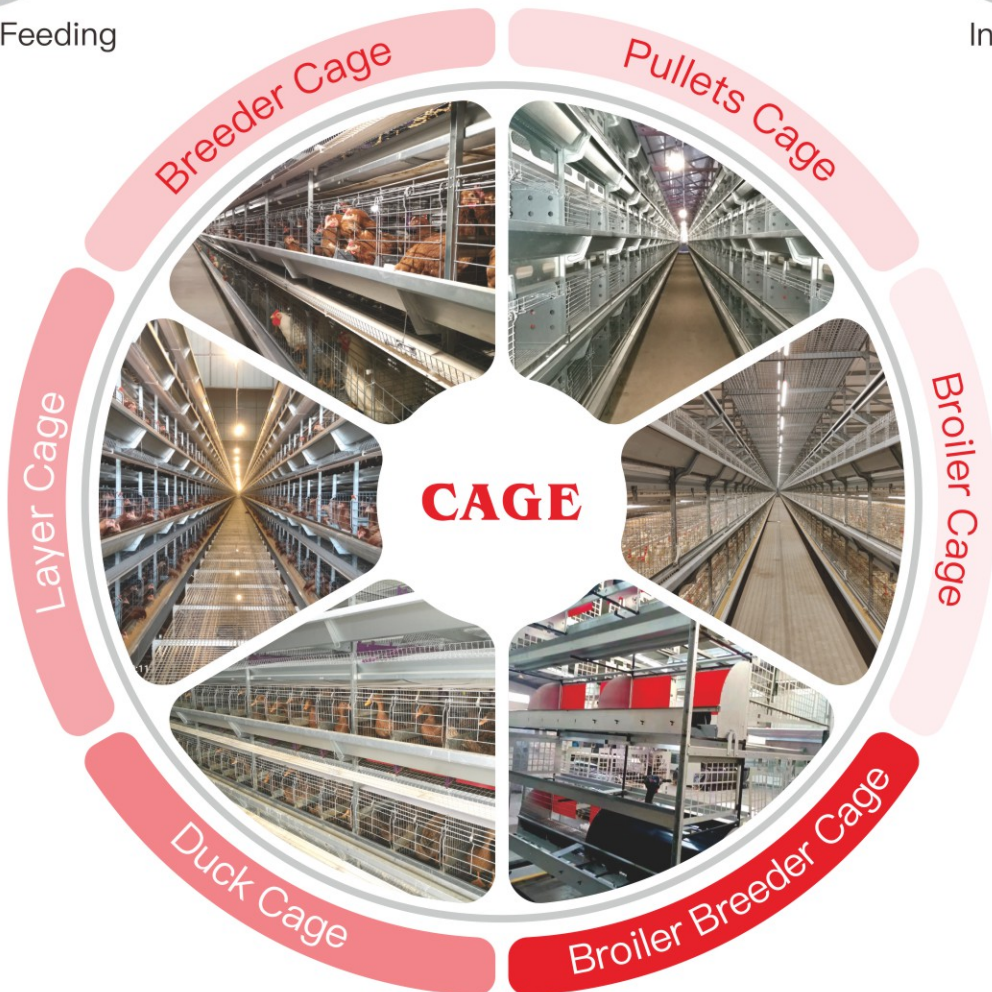
Integrity management with heart and assurance service, to communicate and coordinate with customers All for customers to solve any problem with first action. Regular project investigation and engineer re-checking of project after running.

TEAM WORK

Keeping the work team in great union ,active,Harmonious. Team work is the core concentric for corporate culture, company and individual create a better future with unity,Cooperation and hard working of all the staff.

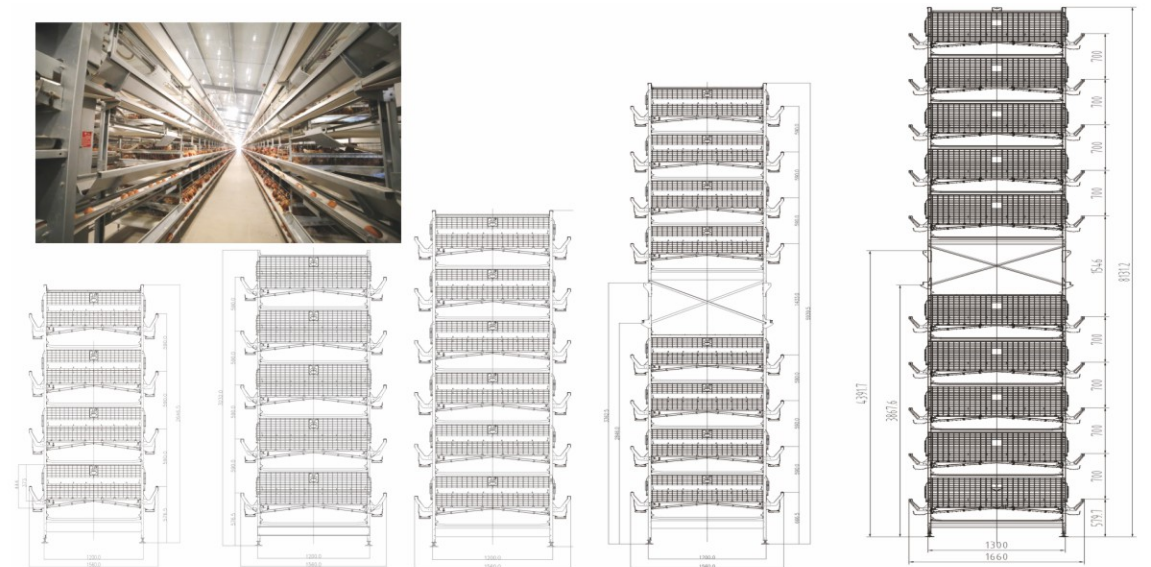


MAIN PRODUCTS



POULTRY CAGE

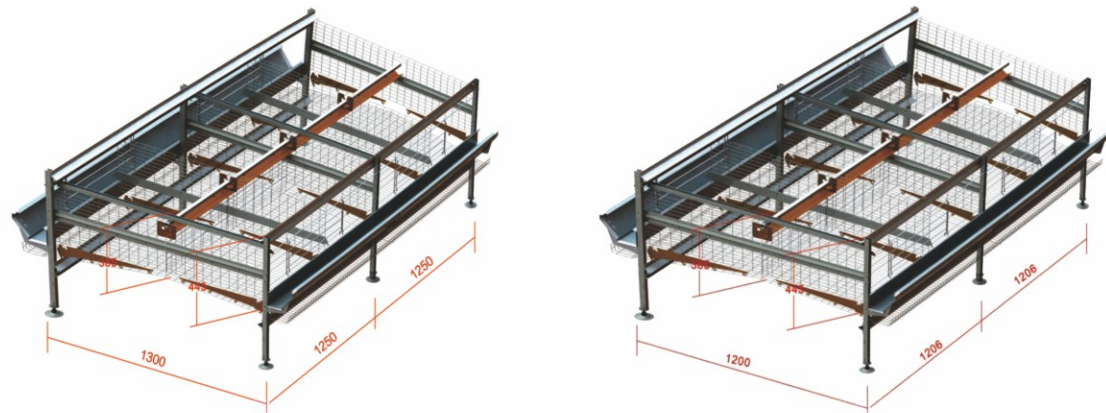
LAYER CAGE



THE DETAIL CAGE MODEL AND SPECIFICATION

Model	Tier height (mm)	Cage width (mm)	Cage depth (mm)	Area per cell floor (cm ²)	Layer/cage (pc)	Area per layer(cm ²)	Unit cage overall height(mm)
9LDC3216	590	600	600	3600	8/9	450/400	2150
9LDC4288	590	600	600	3600	8/9	450/400	2740
9LDC5360	590	600	600	3600	8/9	450/400	3330
9LDC6432	590	600	600	3600	8/9	450/400	3920
9LDC3216H	690	600	600	3600	8/9	450/400	2150
9LDC4288H	690	600	600	3600	8/9	450/400	2740
9LDC5360H	690	600	600	3600	8/9	450/400	3330
9LDC6432H	690	600	600	3600	8/9	450/400	3920
9LDC3216W	650	600	600	3600	8/9	433/390	2300
9LDC4288W	650	600	600	3600	8/9	433/390	2940
9LDC5360W	650	600	600	3600	8/9	433/390	3580
9LDC6432W	650	600	600	3600	8/9	433/390	4220
	650	625	650	4062.5	10	406	
Double-deck	Second floor platform and fence aisle						
9LDC8576	590	600	600	3600	9/10	450/400	5940
9LDC8576W	650	600	600	3600	9/10	433/390	6420
9LDC10720	700	600	600	3600	9/10	433/390	8130

EGG DUCK CAGE



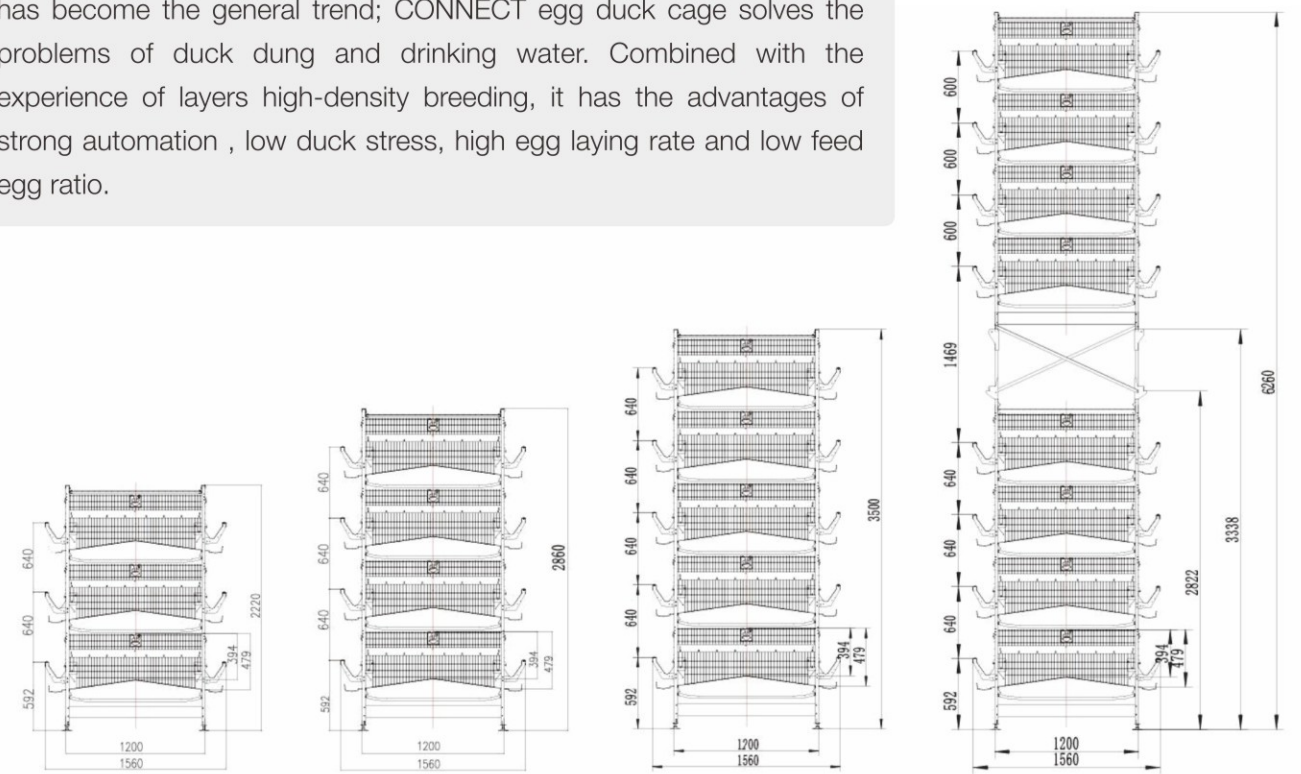
The layer cage mesh is Belgium Bekaert Galvalume wire, the advantages of the steel wire is high intensity and good elasticity which is effectively alleviate the chicken fatigue. Galvalume compared with Hot Dip Galvanized, it is not only greatly enhance the anti-rust ability, but also improve the cage surface smooth so as to avoid the chicken hurt by scratching.

The pillar distances are valid according to cage models, the steel used is strong enough to loading the chicken, and keep large living space. The C shape pillar is formed with Hot Galvanized sheet and which is for cleaning.

The cell door is with lock which is convenient to open and closed, layers can't run away from cell, and also chicken can't throw the feed out of crib during feeding. The Galvalume wire is high intensity and with good elasticity, the mesh surface is smooth so reduce the egg breakage. The sliding angle of bottom mesh is 7° which is reasonable rolling angle for eggs and reduce the egg breakage rate.

The square drinking pipes are installed on the longitudinal central axis of each tier cage in order to save space, supplying water to layers for both sides. The each layer in cell is be sure can drink water from two nipple drinkers. There is a V-shape water trough placed below the drinking pipe to prevent drinking water dropping onto manure belt.

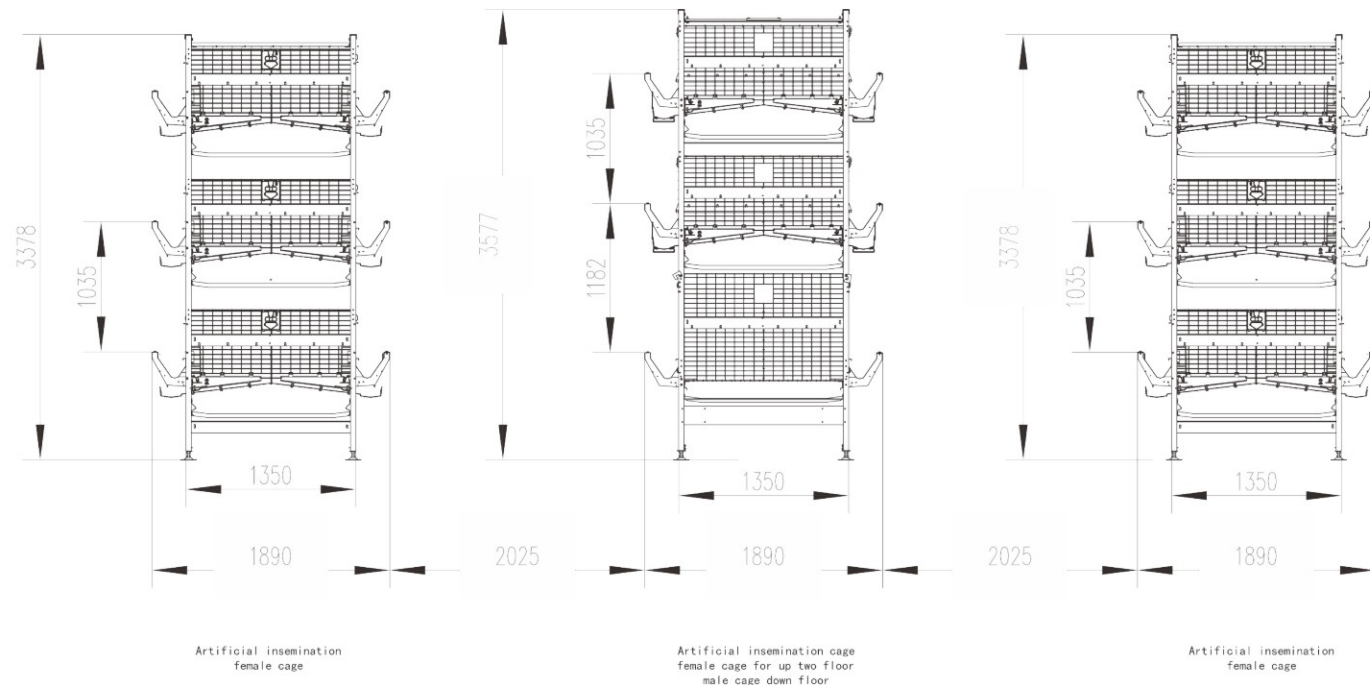
With the needs of environmental protection and the upgrading waterfowl breeding mode in recent years, cage breeding of laying ducks has become the general trend; CONNECT egg duck cage solves the problems of duck dung and drinking water. Combined with the experience of layers high-density breeding, it has the advantages of strong automation , low duck stress, high egg laying rate and low feed egg ratio.



THE DETAIL CAGE MODEL AND SPECIFICATION:

Model	Tier height (mm)	Cage width (mm)	Cage depth (mm)	Area per cell floor (cm ²)	Layer/cage (pc)	Area per layer(cm ²)	Unit cage overall height(mm)
9LDC32108	600	400	550	3600	3	700	2150
9LDC4144	600	600	550	3600	3	700	2715
9LDC5180	600	600	550	3600	3	700	3315
9LDC6216	600	600	550	3600	3	700	3915
Double-deck	Second floor platform and fence aisle						
9LDC8288	600	600	550	3600	3	700	5983

EGG BREEDER ARTIFICIAL INSEMINATION CAGE



LAYER WELFARE CAGE



FEATURES

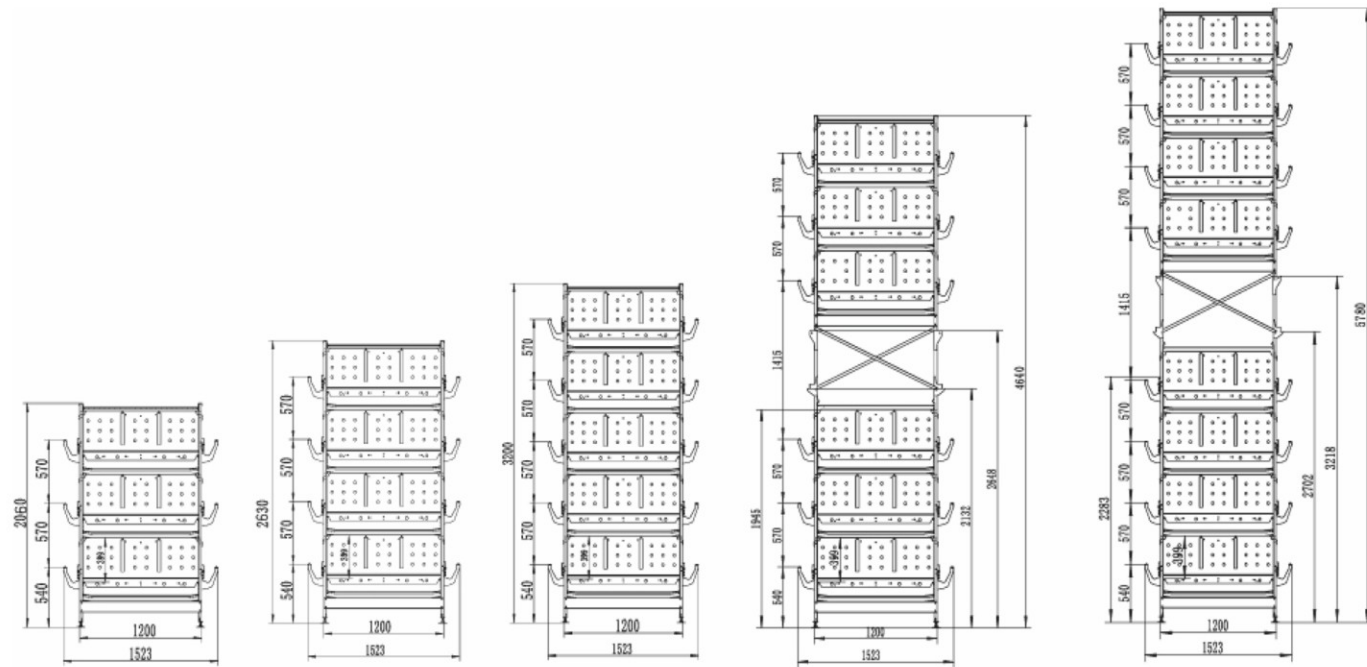
- Sand bath
- Perch
- Free flying down
- Sex mixing, free mating
- Fresh and safe food
- Clean water
- Clean air (environmental friendly)
- Less people manage more chicken
- Appropriate investment to get better profit
- Saving feed and egg quality is good.

Therefore, the automation and intelligence of feeding, drinking water, litter cleaning, egg collection and environmental are the needs of farm keepers, and also meet the needs of chicken.

THE DETAIL CAGE MODEL AND SPECIFICATION

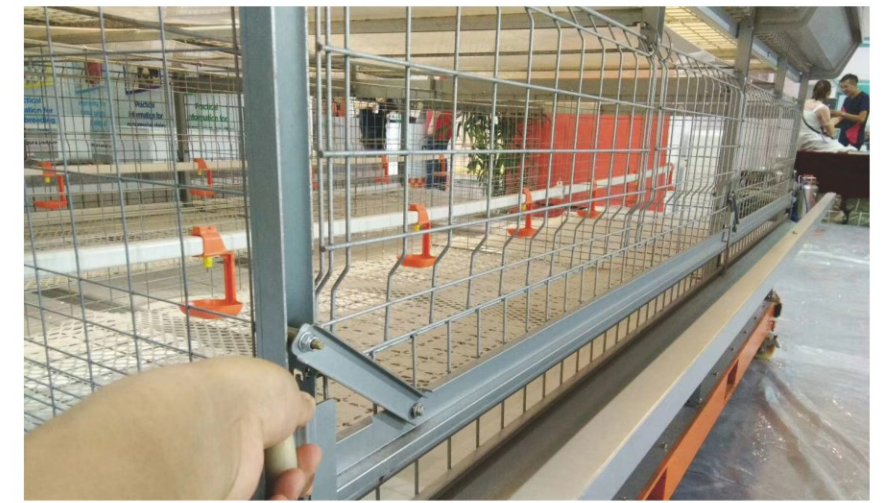
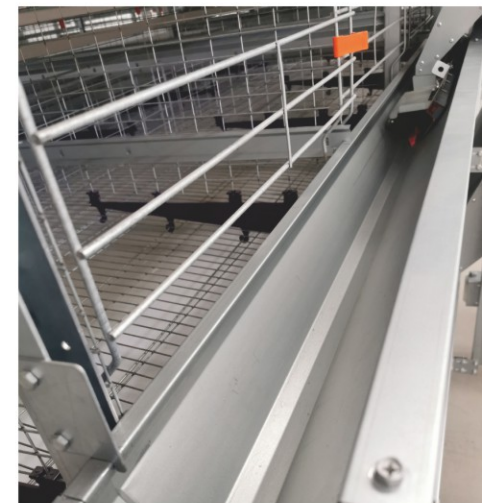
Model	Tier height (mm)	Cage width (mm)	Cage depth (mm)	Area per cell floor (cm ²)	Female /cage	Male/cage	Unit cage overall height(mm)
9LDZC3144	640	400	450	1800	4	1	2300
9LDZC4192	640	400	450	1800	4	1	2940
Double-deck	Second floor platform and fence aisle						
9LDZC6288S	640	400	450	1800	4	1	5300
9LDZC8384S	640	400	450	1800	4	1	6580

PULLETS CAGE



Model	Tier height (mm)	Cage width (mm)	Cage depth (mm)	Area per cell floor (cm ²)	Unit cage overall height (mm)
9HLXy3288	570	1200	600	7200	2060
9HLXy4384A	570	1200	600	7200	2630
9HLXy5480	570	1200	600	7200	3200
Double-deck	Second floor platform and fence aisle				
9HLXy6576	570	1200	600	7200	4640
9HLXy8768	570	1200	600	7200	5780

BROILER CAGE



THE DETAIL CAGE MODEL AND SPECIFICATION

Type of chicken	Floor height (mm)	Cage height (mm)	Cage width (mm)	Cage depth (mm)	Bottom manure belt height (mm)	Tunnel width (mm)
White feather broiler	585	460	1200,1250	700/800/900	235	0/300/400
Yellow feather broiler	565	350-450	1200	600/700/800	235	0/300/400
Male chicken cage	625	500	1200	800	235	0/300/400
Tier	2 tiers/3 tiers/4 tiers; with second floor platform can design 5 tiers / 6 tiers / 7 tiers / 8 tiers					

The tunnel space between two back to back cages is optional 0mm, 300mm and 400mm according to client different raising environmental condition, the cart feeding or pan feeding is optional.

The cage partition wire distance is optional depending on the pan arranged in cage to match different client raising requirement.

BROILER AUTOMATED HARVESTING CAGE

CONNECT auto. Broiler harvesting cage is designed for automatic move-out the chicken through manure belt, which less labors needed, and raise the chicken move-out speed. As don't have labor manual catching the chicken, so minimized hurt for chicken and raise the chicken meat quality. The slats on each cage cell can be move manually by labor or Mechanic moving, then the chicken drop to manure belt and transport it out of house. Each cell of cage size is 1m² which length is 1.25meter, and deep 0.8meter,there are two cages back to back with a partition wire at each segment cage. The feeding trough or feeding pans are optional for broiler raising cage.



MEAT DUCK CAGE



Tier	Floor height (mm)	Cage height (mm)	Cage width (mm)	Cage depth (mm)	Unit cage height (mm)
3 tier	750	450	1200/1500	1400/1600/1800	2510
4 tier	750	450	1200/1500	1400/1600/1800	3260
Note	Feeding pan or Feed walking cart is optional; With second floor platform can design 6-8 tier				

THE DETAIL CAGE SPECIFICATION

Type of duck	Floor height (mm)	Cage height (mm)	Cage width (mm)	Cage depth (mm)	Bottom manure belt height (mm)
White feather duck	665	540	1200	1100	235
Tier	2/3/4 tier is optional; With second floor platform can design 6-8 tier				

MAIN FEEDING SYSTEM

FEED SILO



PERFORMANCE FEATHERS

The steel material of silo is GI sheet which produced by premium steel manufacturer. The both sides of steel sheet galvanized coating capacity 275g/m² and has been passivized, which greatly enhance anti-rust performance and improve corrosion resistance. All bolts of silos are used alloy high-strength hot GI bolts, which have undergone 48-hour salt spray test; the horizontal and vertical assembly seams of plates are sealed with silicone mud, which has the advantages of windproof and rainproof, strong and long service life.

The lid of silo is working with automatic elastic torsion spring device, which can be handled on the ground to freely open and close the lid.

The bottom cone has transparent organic glass observation window to facilitate timely checking the feeding status.

The ladder stair is sturdy and non-slip, and has guardrails which making the design safer and more-user-friendly.

The silo capacity is variety for optional choice.

MODEL AND PARAMETER

Model	Silo diameter (mm)	Capacity (ton)	Height (meter)	Volume (m ³)	Legs Nu. (pc)
18302	183	4.2	4.7	6.5	4
18303	183	5.8	5.6	8.9	4
27501	275	7.5	4.9	11.6	6
27502	275	11	5.8	17	6
27503	275	14	6.7	22.4	6
27504	275	18	7.6	27.8	6
36701	367	21	6.7	33	8
36702	367	27	7.6	42.5	8
36703	367	33	8.5	52	8



Silo feed weighing sensor

CENTRAL BATCH FEED WEIGHING SYSTEM



FEATURES

- It central electronic batch weighing system is connected with whole farm feed conveying system;
- It can realize remote transportation and precise feeding from the main feed silo in farm --- weighing room--daily feed silo -- feed hopper inside chicken house;
- Control system: Touch screen + PLC programming system;
- Feed control valve inside chicken house: Pneumatic switching valve, precise and fast switching;
- Batch weighing weight: 20kg;
- Higher precision: The error of weighing feed in weighing feed hopper is within 1‰, and error in feed hopper inside chicken house is within 3‰;
- Accurate weighing: ensure accurate weighing amount of feed, improve feeding indicators, and bring maximum benefit to customers.



The chicken house central batch feed weighing system is a precise weighing system which weight the feed from the silo in batches and dispatch to different feeding line to chicken house. The batch feed weighing through the control module with preset the weight and control the silo feeding system to precise weighing system stop feeding until reach to preset data, and control the feeding system of precise weighing system to dispatch the feed to next sub-feeding lines, thereby achieving accurate feed weighing and delivery to each feeding line in chicken houses.



AUTO TROLLEY FEEDING SYSTEM



The trolley feeding system is working for both layer cage system and broiler cage system. The reliable trolley feeding system is reply on the strong cage frame and the strengthened guide rail. Each trolley is equipped with two groups of guiding wheels. The smooth rail and feed trough make guide wheels run smoothly without noise, and ensure feeding evenly.

The deep V-shaped feed trough makes the feeding even, automatically feeding at suitable feeding area to prevent feed mold, and ensure the chicken always eat fresh feed and saving feed.

The feed trough is fully digitally processed by robots and has 11 bending processes. It is strong and can withstand people stepping on it; It is plug-in type and strong connection.

The guiding rail and feed trough are seamlessly connected which ensure the trolley running smoothly and noiselessly, and feed is evenly distributed.

EGG COLLECTING MACHINE



CAGE EGG COLLECTING MACHINE

The eggs on each row and tier of cage are transported automatically to front vertical egg collecting machine. The automatic egg collecting system including egg introduction, collecting device, guiding outlet device, buffering, conveying, sprocket gear and lifting chain. The egg collecting system is working with multiple egg claw groups connected in parallel to each of the lifting chains. The egg claw group including plurality of egg claws connected in series trough a coupling shaft. The two ends of each egg claw group are respectively connected to the side blocks to prevent the eggs from sliding out through the coupling shafts. The side blocks are fixed on the lifting chain through side buckles. The automatic egg collecting equipment is placed on one or both sides of the conveyor device along the movement direction of the transmission chain of the conveyor device. This equipment and system has the function of preventing eggs from falling and breaking, which can reduce manpower and material expenditures,

The cage floor wire mesh 7°sloping and reduce the egg breaking rate;

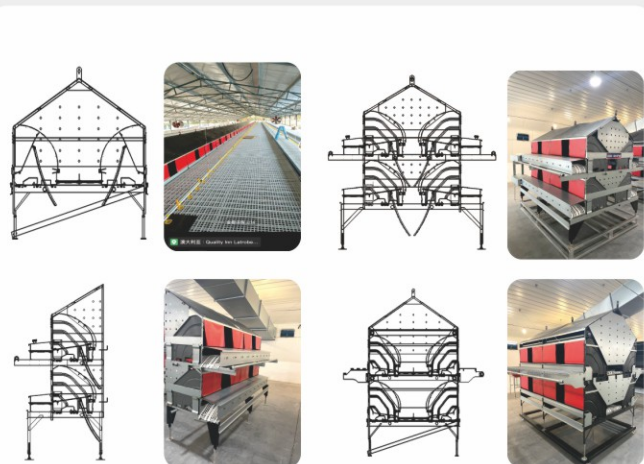
There are two type of egg collecting system, one is ring belt type, another is intermittent work, There is a soft shell egg removing and collecting device between the connection of egg collecting machine and egg belt, the conveyed breakage and soft shell eggs are dropping down egg collecting plate. The plate is big and easy collecting.

The central egg collecting system transport eggs from each row of cage to egg storage room. There are two type of egg transport conveyor. One of them rolling conveyor width is 500mm, the transport capacity is 40K to 45K eggs in an hour, another one width is 750mm, the transport capacity is 60K to 65K eggs in an hour.

GROUP LAYING AUTO. NEST

DESIGN CONCEPT

- The group laying auto. Nest have large space which can accommodate 5-6 breeders laying eggs at the same time (8-10 breeders can be accommodated during peak period)
- The bottom of egg nest is soft and comfortable, and the sides and top are breathable and smooth which ensuring a safe and comfortable egg-laying environment.
- The red curtain on nest attracts breeders to lay eggs meanwhile ensuring the laying breeders are not disturbed by the outside.



REDUCING EGG BREAKAGE RATE AND INCREASE HATCHING RATE

- The needle-shaped egg nest mat ensures that the newly laid eggs are not contact with any things, and ensure the eggs are clean.
- The eggs quickly slide onto egg belt which with holes after laying, which avoid chicken pecking the eggs;
- The egg belts have holes which ensures stable egg conveying, and good ventilation performance inside the conveying belt improves the egg hatching rate.

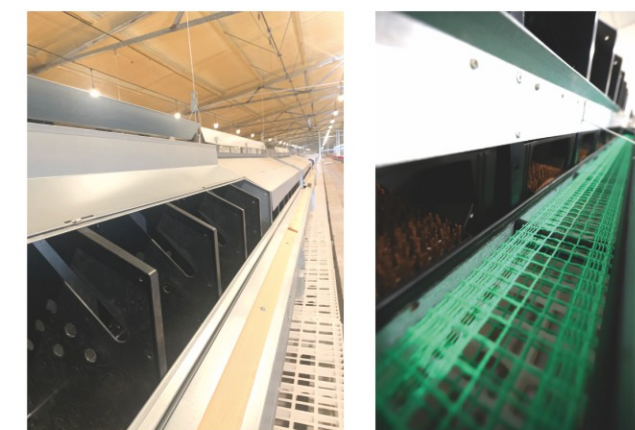
EASY TO OPERATE, STURDY AND DURABLE

- The main structure of egg nest is strong and durable;
- The control system is easy to operate;
- Less daily maintenance, simple and reliable.

SPECIFICATION

SN.	Dimension/ single nest (mm)	Nest size (mm)	Section/ nest	Egg belt width (mm)	Floor number	Speed (m/min.)	Max. Convey distance (m)	Egg collecting
A	2300*1610*1590	1140*490	4	250	1	7.6	120	In middle
B	2300*2200*2210	1140*490	8	250	2	7.6	120	In middle
C	2300*1160*2115	1140*490	4	250	2	7.6	120	In middle
C	2300*2440*2350	1140*490	8	250	2	7.6	120	In middle

SIDE EGG BELT AUTO. NEST

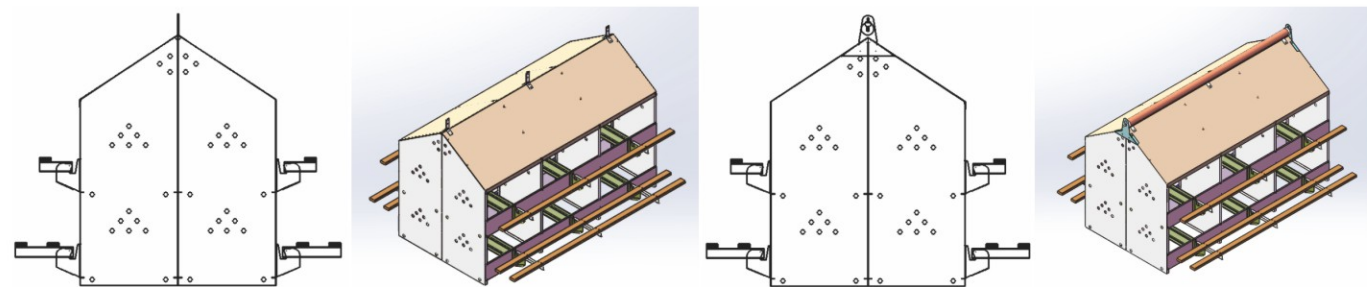


The double side auto. Egg nest including egg nest, egg conveying belt, egg connecting table. Each two sets of egg nest with one passing way. There is anti-perch sheet on top of egg nest, the black ABS plate in the nest is attracting chicken laying in nest. There is no sharp part to hurt chicken or eggs. Above the egg belt, there is stamping wood board for chicken. The cover of egg belt can be opened. The fiber composite porous egg belt reduces the egg breaking rate and meanwhile easy for liter leakage. There is a cushioning strip on the outside of egg belt to further reduce the occurrence of dark-cracked egg. The PVC holes mat is long life time without deforming and nest ventilation. The nest also equipped with manual open egg lid. There is height regulating winch to control the auto. Nest lifting. It is no need take egg nest outside house when cleaning and rearing pullets.

SPECIFICATION

SN.	Dimension/ single nest (mm)	Holes	Egg belt width (mm)	Speed (m/min.)	Max. Convey distance (m)	Egg collecting
1	2240*1120*660	16	100	0-10	120	Both sides

MANUAL EGG NEST



(Wire rope anti-perch)

(PVC pipe anti-perch)

The manual egg laying nest is designed for the clients who would like to achieve economic breeding raising and free arranging. The manual egg nest is made of hot galvanized steel which the steel thickness is 0.6mm. The holder material is PP. With smooth and straight chicken stamping wood. Anti. Corrosive, no glitch. There are double floors. The each hole size is up to 250*380mm. Good ventilation which good for breeders laying. There are many installation way suitable for any type of chicken house. It is simple for arranging disinfection. There is no space at left and right of nest which greatly reducing the bottom sheet falling. The main moving parts all fix with Anti. Loosing nuts.

SPECIFICATION

MANUAL EGG NEST

DIMENSION:

Length 1505 x width 1262 (pedal down)
x height 1050mm

EACH HOLE SIZE:

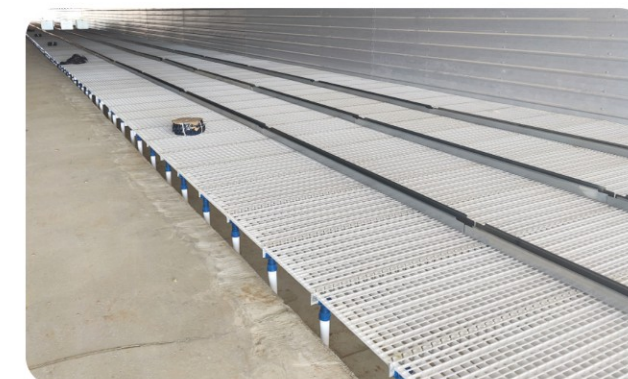
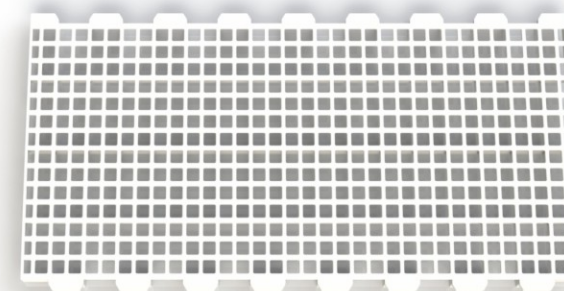
Width 250 x depth 380mm

NUMBER OF HOLES/NEST:

24 holes



SLATS FLOOR



Features:

- New-type reinforced structure and material
- Made of modified and purified raw plastics
- High intensity and durability
- Anti-corrosion
- UV and anti-aging
- Oxidation-resistance
- Easy clean and installation
- Long service life
- Reasonable design of hole size can avoid the hurt of bird foot
- Self-regulating raising and lowering function to solve the problem of installation on the uneven ground.
- Adjustable leg height range:400mm-500mm(according to customer's requirement)
- Beam is made of reinforced and anti-aging PVC material sturdy and durable,anti-rust and anti-corrosive.
- Ingenious and all plastic adjustable leg structure.
- Slats floor bearing capacity ≥ 200kg/m2

Item	Specification(mm)	Hole size(mm)	Thickness(mm)	Layout size(mm)	Material
Big hole slats floor	1200*600	42*22	40	1200*575	1200*575
	1000*600	42*22	40	1000*575	1000*575
Small hole slats floor	1000*500	24*22	37	1000*508	1000*508
	1200*500	24*22	37	1200*508	1200*508

MANURE CLEANING MACHINE

DURABLE WORKING STABLE AND SMOOTH

To reduce ammonia emissions, improve climate in chicken house to provide birds healthy living environment, the automatic manure collecting system is used. The manure in each tier of cage is transported to the end of house through manure belt and fall onto the cross manure belt and then transported out of house by the inclined manure conveyor which dump into truck direct.

MAIN ADVANTAGE

- The manure belt is thick and strong, durable in working and healthy for birds.
- The high production precision ensure the manure belt running smooth and stable.
- The surface of driving rolls are integrally coated with rubber which increasing friction, the belt is straight running and lift time is longer.
- There is an inclined scraper at the end of manure belt, and there is another scraper at down of returning belt to be sure clean the manure thoroughly.
- Manure scraper is free Open-close disassembly, which is convenient washing and replace.
- Stainless steel pulling rod which is during in working.



CHICKEN FLOOR FEEDING SYSTEM

BROILER PAN FEEDING SYSTEM

Broiler automatic feeding system include driving device, hopper, conveying pipe, auger, pans, suspension lifting device, anti-perching device and feed sensor. The main function of the system is to transport the feed from the hopper into each feeding pan to ensure the eating of the broiler and automatically controlled by the level sensor's direction which give the order to motor to make it working or stop. The leveling device ensure the different day chicken get feed freely and adjusting according to its size. The length of one feeding line is according the house to use one line which driving from beginning of house or arrange two lines which driving from middle of house. The driving motor brand is from European. The hanging and fastening parts we use are stainless steel or hot GI.



THE FEEDING PIPE SIZE

SQ.	Feeding pipe Specification	
1	Feed pipe	Diameter:45 mm with or without reinforcement rib
2	Pipe wall thickness	1.2mm
3	Material	galvanized steel, galvanized thickness 275g / m2
4	Number of feed pan	4&5 pans/3 meter
5	Auger brand	South Africa
6	Driving motor reducer	0.75kw
7	Motor reducer brand	Transtechno & Wanxin
8	Feeding capacity	Up to 450kg/h
9	Feeding line lifting system	Manual & Motor optional
10	Feeding line hanging accessories	Hot GI or Stainless steel
11	Feeding control	With sensor
12	Feed hopper	Hot GI sheet V shape hopper, capacity 70-120 kg
13	Anti. Roosting	With electric wire or movable sliding short sleeve



BROILER FEEDING PANS



FG14-1

- The diameter of feeding pan is 330mm ;
 - Material use is PP(polypropylene)
 - Feed grill: 14 pcs
 - There are 6 feed amount control for pan which coming from main feeding line;
 - The feed gate switch controls the feed dropping amount to pan until close complete;
 - The feed discharging amount regulating model is convenient, speed and accurate;
 - The bottom plate can be removed and placed on ground to used as starter for chicks;
 - The V-shape corrugated bottom of bottom plate reduces the food remain in plate to keep chicks feeding fresh feed and stop chicks feeding or rest inside plate;
 - The edge of the feed pan is tilted towards the center of the pan to avoid waste caused by feed spillage;
 - The smooth inward-angled outer edge prevents broiler crop injuries and allows for comfortable eating;
 - There are two installation model for pan fixing on feed pipe: Fixed type and swing type;
- Color of pan: Orange&white; Red&white optional.



FG14-2

- The diameter of feeding pan is 330mm ;
- Material use is PP(polypropylene);
- Feed grill: 14 pcs;
- Feeding Quantity of broiler: 40-50 chicken/pan;
- Adding antioxidants: anti-aging;
- Fixing style on feed pipe: Fixed type and 360 ° rotation and swing freely;
- Feed gate to control the feed amount dropping into pan;
- The special design of feed plate to stop feed waste;
- The special feed hole on cylinder guarantee the feed consumption for broiler at different ages.

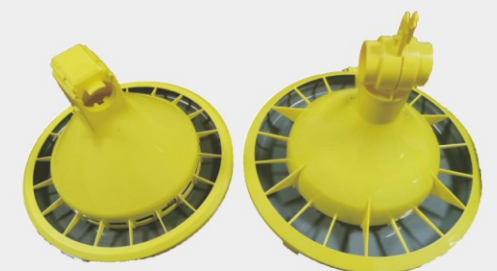
FNG6-1

- Model:
- Innovative design for animal welfare;
- Suitable for broiler all life time age;
- Keeping minimized feed waste;
- No-grill design which is easy for chicks feeding;
- Material use is PP(polypropylene), molding formed;
- Good toughness and corrosion resistance;
- Movable feed dropping gate manually control;
- There are 6 heights can be regulated.
- The bottom plate diameter: 330mm, height is 70mm;
- Height: 320mm;



FG18

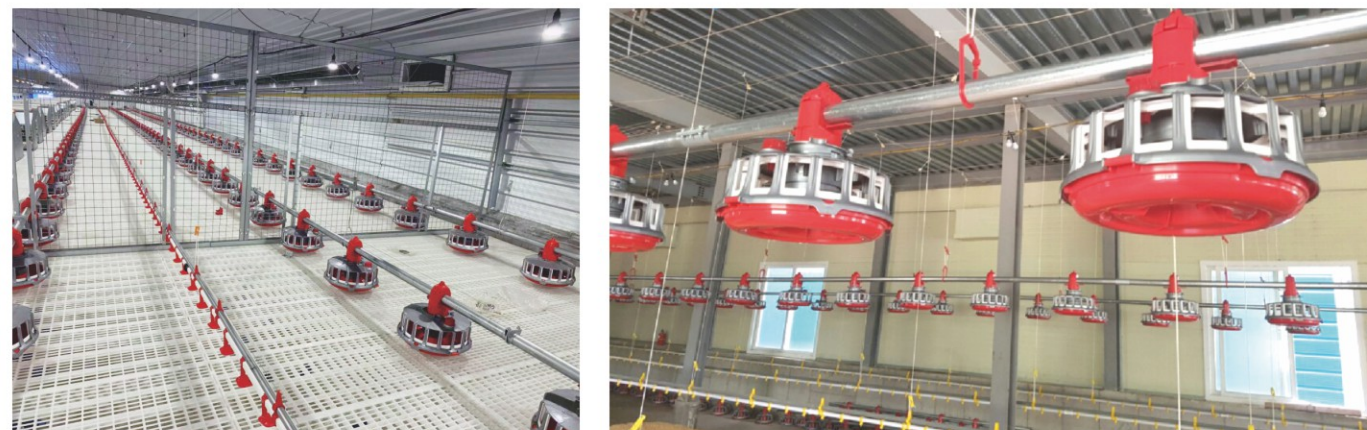
- Used in broiler cage system;
- The diameter of feeding pan is 350mm&height 255mm and 380mm &height 280mm;
- Material use is PP(polypropylene);
- Feed grill: 18 pcs;
- Innovative design;
- Minimize space taken in cage;
- Feeding dropping amount control;



BROILER FEMALE BREEDER PAN FEEDING LINE

FEATURES

- Breed pan feeding line (round feed pipe)
- The Breeder pan feeding system
- There are 4 pans each three meter, which pan distance between two feeding pan is 750mm;
- The diameter of feeding pan: 360mm;
- Material: Polypropylene
- Feeding number of breeder: 12.5 chicken/pan;
- There are 16 grill, each grill width is 40-52mm, totally 11 gear, which is suitable for different type of chicken and life time;
- There three height for chicken get feeding which id 70mm,80mm and 90mm, the chicks can freely when feeding grill space width 52mm and height 90mm;
- When the feeding grill height is 70mm which is ensure there is no feed goes out which saving feed;
- There is one feed dropping regulating sheet, which is control feed amount in pan.
- The bottom bowl is hook style, it is convenient dis attach. It is no need disassemble complete when washing.



BROILER FEMALE BREEDER CHAIN FEEDING LINE

The breeder chain feed line is suitable working for both female and male breeder chicken. The driving device is cyclical pin wheel reducer, which working more stable, reliable, feeding averagely, low noise compare with gear reducer, the feeding speed can up to 36m/min, the feeding capacity is 0.7-1.5 kg /meter.



- The breeder chain feed line is suitable working for both female and male breeder chicken. The driving device is cyclical pin wheel reducer, which working more stable, reliable, feeding averagely, low noise compare with gear reducer, the feeding speed can up to 36m/min, the feeding capacity is 0.7-1.5 kg /meter.

The feed trough and connecting parts is elevating style, the height can be adjusted according to the different broiler life stage.

The rack material is high strength nylon which anti-corrosion, more suitable for the broiler house.

The surface of 90 digress corner wheel and guiding orbit have the special treatment of hardness, the bear is no need fill oil which material is alloy which anti. corrosion, and have the long working life.

The feed trough is made of anti-corrosion and rust steel, at the same time equipped with feed grill which size is 44mm, which effectively separate the cock from female breeders. The grill width is variable according to customer needs.

There is a plastic block sheet which stops the feed go outside of trough.

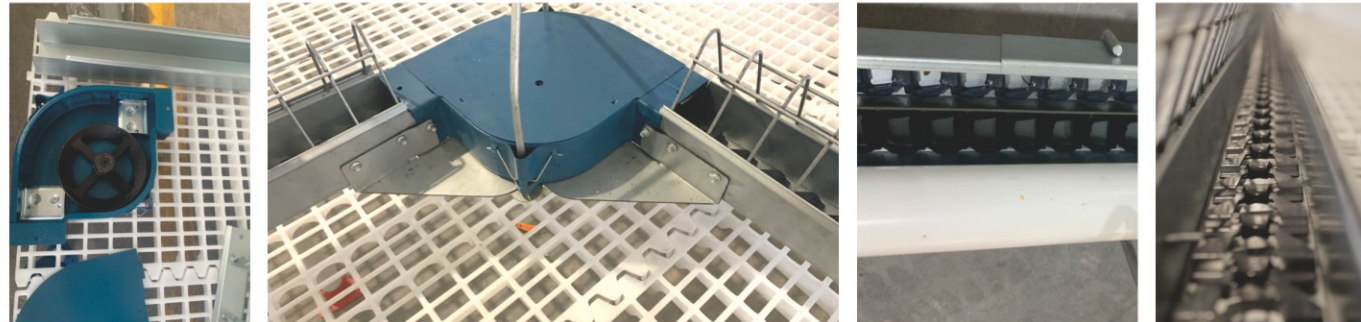
- The feeding speed: 36m/min transmission speed is guarantee the rapid and uniform feed transmission, carrying capacity is 0.7-1.5kg/m, max. transport length is 260 meters.

Drive: the solid base and special material production ensure the normal and stable operation, in addition with safety pin device. Power : 1.5/2.2kw application material line length is 150~300m.



BROILER MALE BREEDER FEEDING LINE

- Corner wheel: 90 degree high strength angle wheel, drive gear and corner wheel are made of wear resistant material, and after high frequency quenching, high hardness, wear resistance.

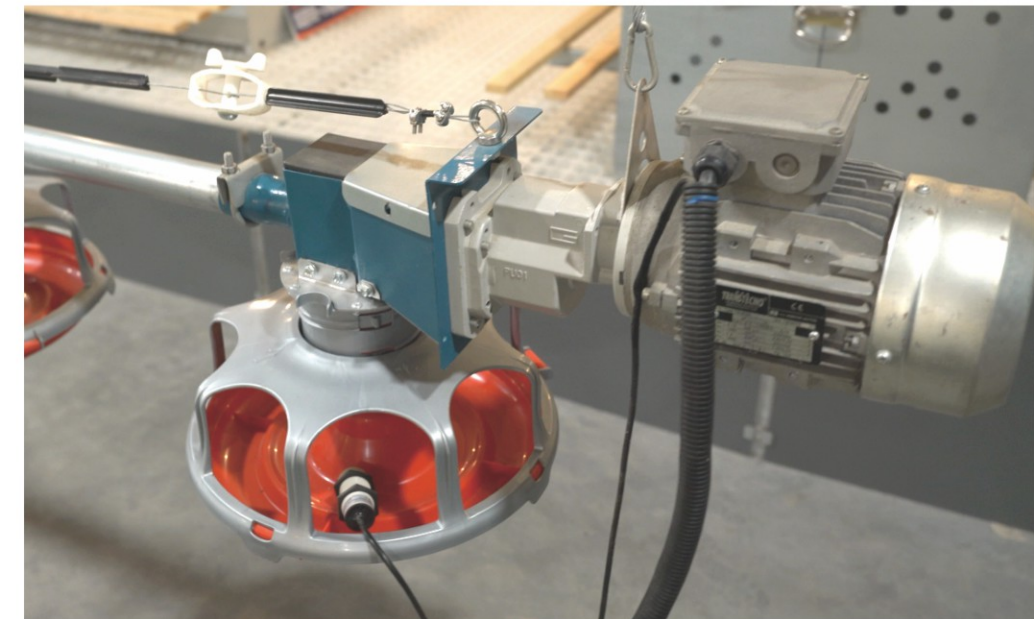
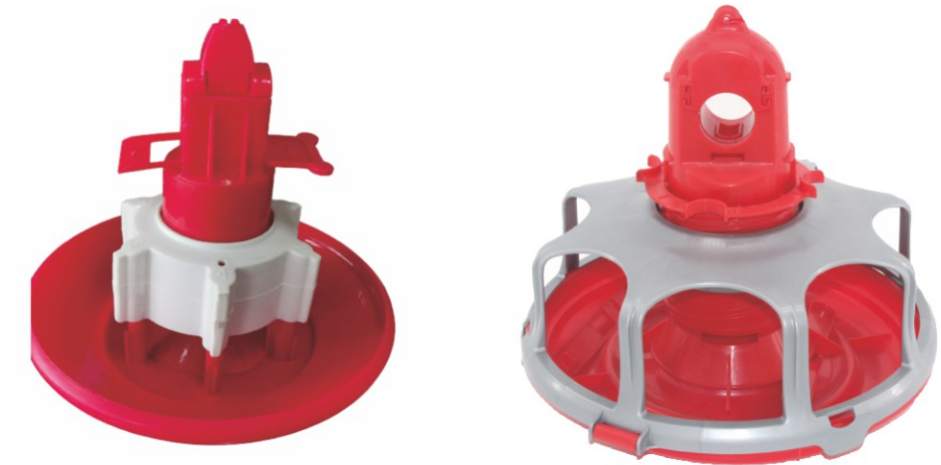
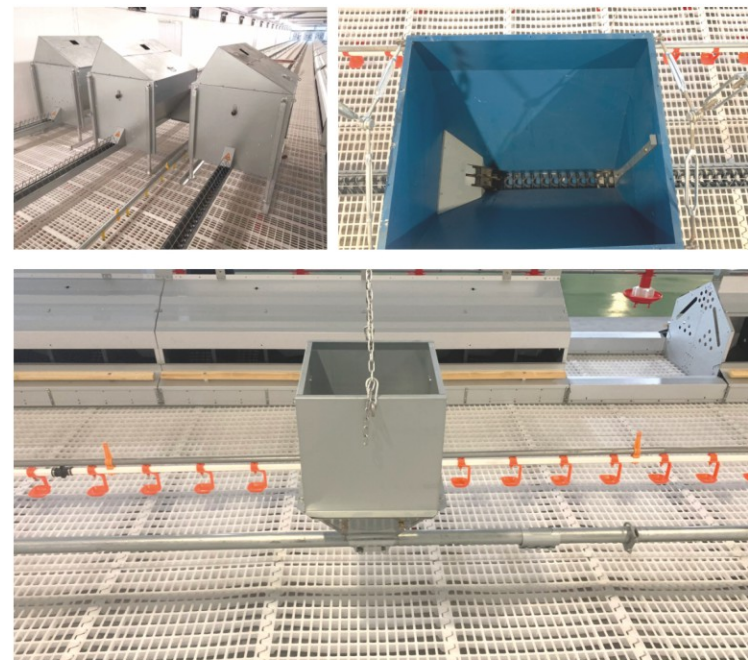


- Driving chain: South Africa champion brand chain, the world's best chain, high tensile strength, long service life.



- Feed trough material: material trough is 1.2mm thick hot galvanized sheet material, wear-resisting anti rust.
- Made of galvanized steel wire grid, grid spacing uniform, standard width is 42mm.

- Feed hopper
Feed hopper material is hot galvanized sheet, wear resistance. Each line is equipped with a big hopper and a small hopper, with dust cover, beautiful appearance, durable.
Female chain large hopper volume: 250kg
Female chain small hopper volume: 150kg
Male chain feed hopper volume: 120kg
- Bracket: stand type lifting, easy to adjust the height, save time and effort.



FEATURES

- The diameter of feed pan is 37.5cm, big grille to meet more chicken feeding.
- There are 12 levels of fine adjustment of feed volume, feeding more evenly
- There is feed fixed buckle to prevent feed pan shaking.
- Feed level and feed volume in pan

Level	1	2	3	4	5	6	7	8	9	10	11	12
Feed in pan(kg)	0.361	0.404	0.456	0.535	0.572	0.657	0.723	0.815	0.908	1.018	1.116	1.253

DRINKING SYSTEM

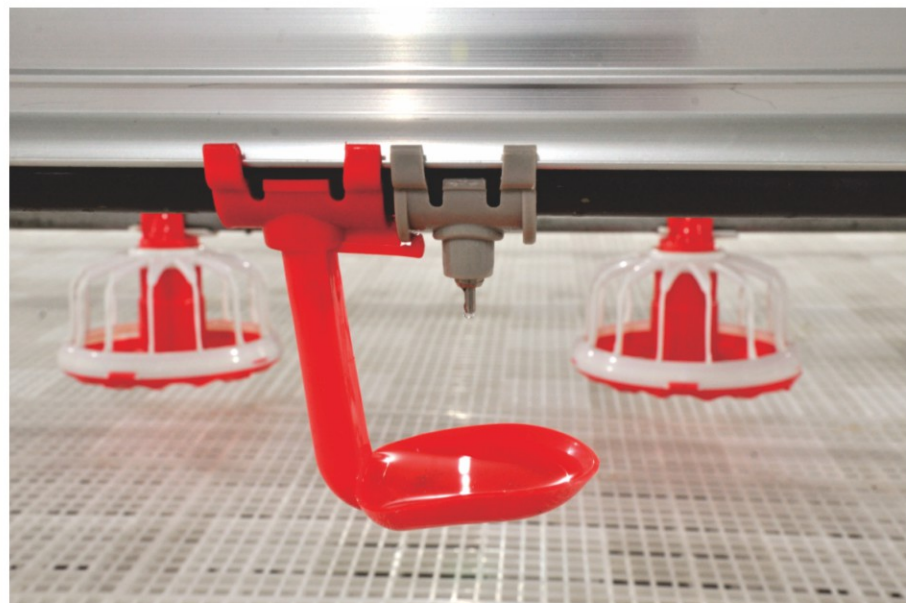
The water nipple drinking line is the common ideal drinking equipment for floor system chicken. The nipple drinker not only stopping the water dropping, but also ensure the drinking water safety for chicken and reduce the disease.

The water drinking line including water filter, pressure regulator, medicine doser, water drinking pipeline, drinking nipple, drinking line lifting system and anti. Perching line.

According to type of birds to work with different water flow nipple drinkers, and nipple numbers on water pipe line. There are commonly to have 12 or 15 nipple drinkers on each 3 meters drinking line for chicken. The water flow is vary for birds type roughly from 50 ml to 160 ml.



Chicken type	Broiler&duck	Breeder&layer	Duck breeder	Duck & layer	Breeder & layer &Rabbit
Water flow (ml)	80-120	50-80	80-120	50-80	50-80
material	The nipple material is stainless steel, the shell material is advanced formaldehyde M9				
Nipples/3 meter	8-15 nipple drinkers/ 3 meter water pipe				
Water pipe shape	Square pipe 22 & 25mm				
Feather	Stem is moving in 360 °and doesn't stuck, working for different type of birds at different age stage				



HOUSE CLIMATE CONTROL

For better and profit poultry production, the house climate control is a main factor for farmers success. CONNECT have various of climate control equipment to work with. Keeping maximum fresh air and warm to chicken. Realizing profitable chicken business.

VENTILATION FAN

PUSH-PULL EXHAUST FAN

The water nipple drinking line is the common ideal drinking equipment for floor system chicken. The nipple drinker not only stopping the water dropping, but also ensure the drinking water safety for chicken and reduce the disease. The water drinking line including water filter, pressure regulator, medicine doser, water drinking pipeline, drinking nipple, drinking line lifting system and anti. Perching line.



BLADE

The material of blade is stainless steel, high tensile and high yield strength. The thickness of blade steel is up to 1.2mm. There is reinforcement bending. The fans working in pressure negative pressure and small deformation.



MOTOR

SIMENS or other famous brand motor.
The voltage and Hz is customize
Protective grade is Ip55
Insulation grade is F



PULL AND PUSH DEVICE

The pull and push device for opening shelter, ensure the minimum air resistance and maximum air volume. The fastening parts all cooper material rivet, anti. Friction Non-rust. The guiding rod material is stainless steel 304.



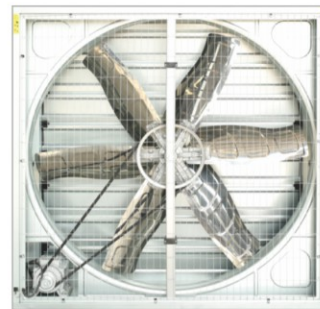
MODEL AND PARAMETER

Model	Blade diameter (mm)	Air volume (m³/h)	Power (kw)	Dimension (mm)	Voltage	Hz
PPF900	900	31500	0.75	1000*1000*450	380	50
PPF1100	1100	33000	0.75	1100*1100*450	380	50
PPF1250	1250	43170	1.1	1380*1380*450	380	50
PPF1400	1400	46000	1.5	1530*1530*450	380	50

DROP HAMMER EXHAUST FAN

Frame of fan: Hot GI sheet, high strength, strong in Anti.-corrosion

Blade: Stainless steel blade, passed dynamic balancing test, big air volume, low noise, there is no deforming or crack.



MODEL AND PARAMETER

Model	Blade diameter (mm)	Air volume (m³/h)	Power (kw)	Dimension (mm)	Voltage	Hz
DHF500	500	55	≤60	0.37	380	620*620*400
DHF710	710	60	≤60	0.37	380	800*800*400
DHF750	750	65	≤65	0.55	380	900*900*400
DHF900	900	70	≤70	0.55	380	1000*1000*400
DHF1000	1000	70	≤70	0.75	380	1000*1000*400
DHF1100	1100	73	≤70	1.1	380	1100*1100*400
DHF1220	1220	56	≤75	1.1	380	1220*1220*400
DHF1380	1380	60	≤70	1.5	380	1380*1380*400
DHF1530	1530	60	≤70	1.5	380	1530*1530*400

MOTOR DIRECT-DRIVE FIBERGLASS CONE FAN



THE MAIN ADVANTAGE

Working with DC brushless high-efficiency motor, the energy efficiency ratio of the fan is 30% higher than normal fans.

Control with 0-10V, which can achieve stepless speed regulation, uniform and stable speed.

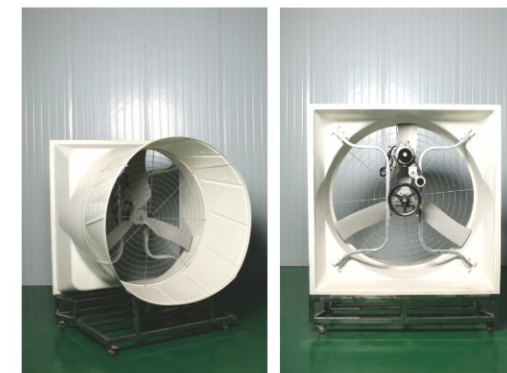
The motor is fully enclosed, high protection level, reliability, and long service life.

The motor direct connect to fan blades, eliminating the belt driving and making maintenance more convenient.

MODEL AND PARAMETER

Model	Motor power (kw)	Blade diameter (mm)	Blade number	Blade material	Weight (kg)	Driving type	Dimension (mm)	Installation hole size (mm)
DDFC24	0.55	660	3	Cast Alu.	45	Direct	800*800*480	730*730
DDFC36	0.75	910	3	Cast Alu.	56	Direct	1170*1170*600	1080*1080
DDFC51	1.1	1290	3	Cast Alu.	82	Direct	1530*1530*600	1490*1490
DDFC55	1.5	1392	3	Cast Alu.	105	Direct	1600*1630*635	1540*1570

BELT DRIVING FIBERGLASS CONE FAN



THE MAIN ADVANTAGE

High-quality anti-UV glass fiber and resin ensure the toughness and hardness of FRP;

Strong corrosion resistance, no deformation, no fading; Cast aluminum fan blade stall limit design can prevent motor overload and increase air flow, improve efficiency and reduce energy consumption;

Driven by a separation motor, it saves electricity and energy;

Adopts the principle of air flow, synthetic PVC blinds, prevents flies and insects, and prevents air backflow;

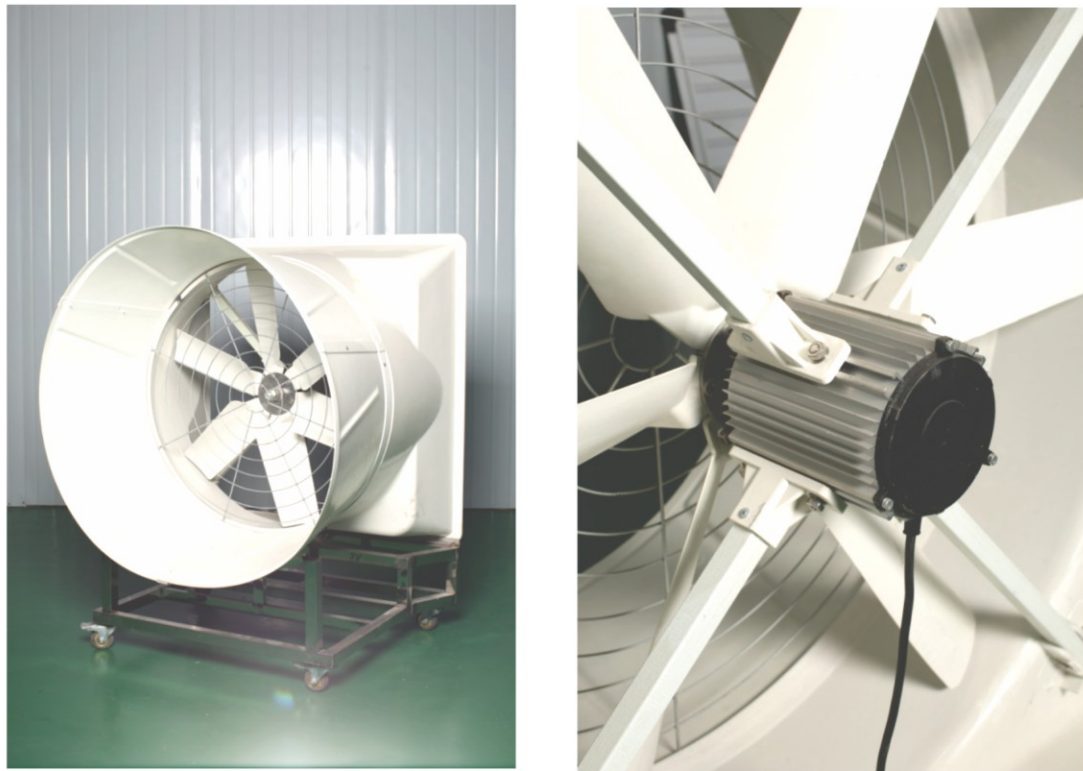
Automobile-type belt tensioner;

High-quality motor base can lubricate the bearings.

MODEL AND PARAMETER

Model	Motor power (kw)	Blade diameter (mm)	Blade number	Blade material	Weight (kg)	Driving type	Dimension (mm)	Installation hole size (mm)
BDFC36	0.75	910	3	Cast Alu.	59	Belt	1170*1170*600	1080*1080
BDFC51	1.1	1290	3	Cast Alu.	110	Belt	1530*1530*600	1490*1490
BDFC55	1.5	1392	3	Cast Alu.	105	Belt	1600*1630*635	1540*1570

FIBERGLASS CONE FAN

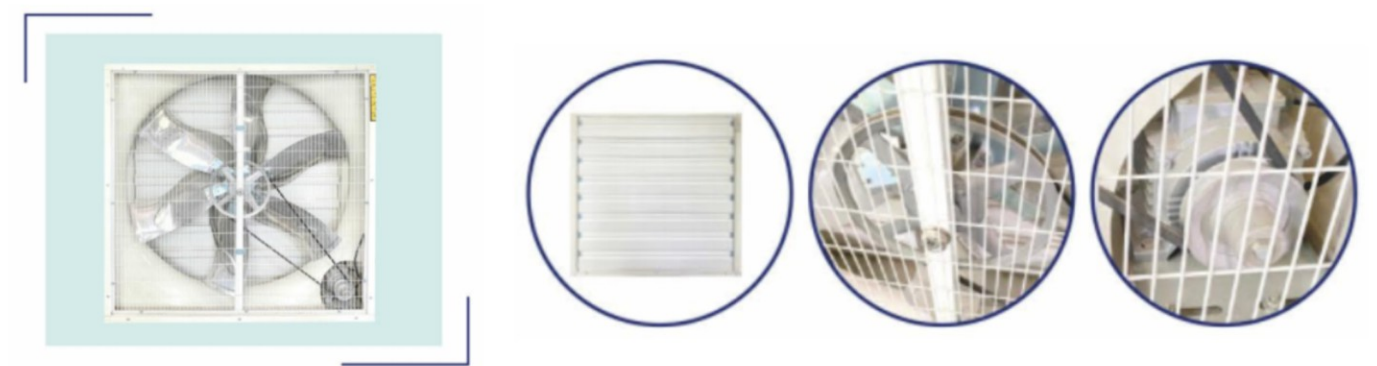


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 Driven by a separation motor, it saves electricity and energy;
 Adopts the principle of air flow, synthetic PVC blinds, prevents flies and insects, and prevents air backflow;
 Automobile-type belt tensioner;
 High-quality motor base can lubricate the bearings.

MODEL AND PARAMETER

Model	Blade diameter (mm)	Fan RPM	Motor RPM	Air capacity (m ³ /h)	Full pressure (Pa)	oise (dB)	Power (Kw)	Fan dimension [mm]	Installation hole size (mm)
BFC560	375	1400	G4-1400	6200	55	≤70	0.25	560*560*440	500*500
BFC660	480	1400	G4-1400	8900	55	≤70	0.37	660*660*450	600*600
BFC850	655	720	G8-750	18000	65	≤70	0.37	850*850*550	800*800
BFC1060	905	560	G10-560	23000	70	≤70	0.55	1060*1060*560	1000*1000
BFC1260	1065	560	G10-560	32500	70	≤70	0.75	1260*1260*560	1200*1200
BFC1460	1260	560	G10-560	41500	70	≤70	1.1	1460*1460*560	1400*1400

BOX FIBERGLASS FAN WITH STEEL BLADES



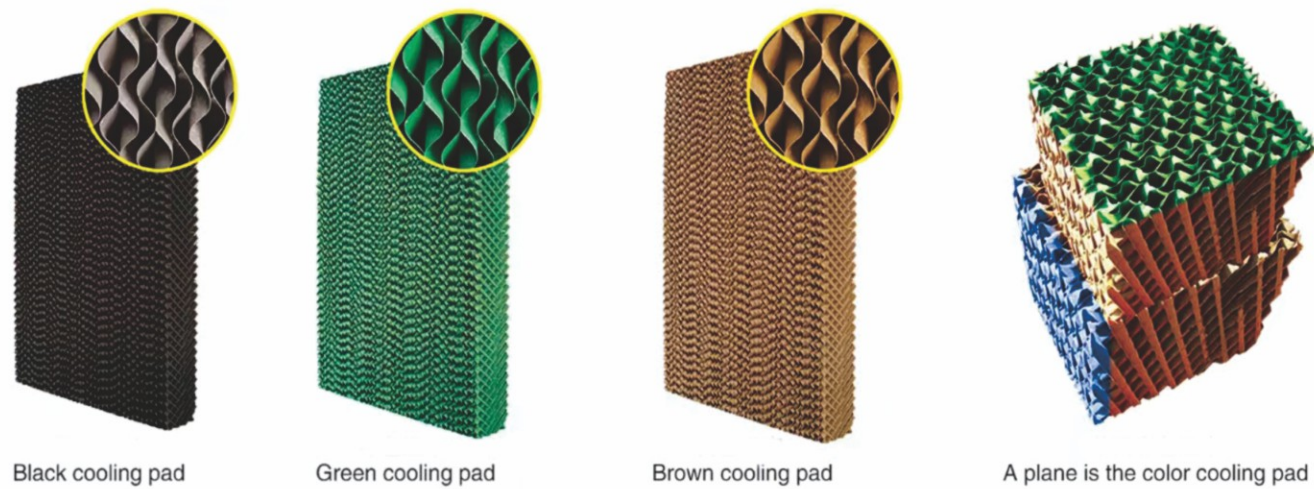
- Box molding fiberglass shell, specially design, upgrading with material and strong, non-shape change, and crack;
- Compare with fiberglass blades, the angle is larger, lining is more reasonable, maximum reduce the resistance and raise the air volume;
- The pure copper core closed motor, water and humidity proof, safe and anti. Corrosion;
- The new model hammer design, which made the shutter opening angle bigger, and air exhaust is more effluent;
- Plastic spray steel shutter, which is more freely in open and close, non-deforming.

PRODUCTION PARAMETER

Model	Blade diameter (mm)	Blade RPM	Motor RPM	Air capacity (m ³ /h)	Full pressure (Pa)	Noise (dB)	Power (Kw)	Dimension (mm)
FXFY1380	1270	469	1440	45500	56	≤70	1.1	1380*1380*400

COOLING PAD

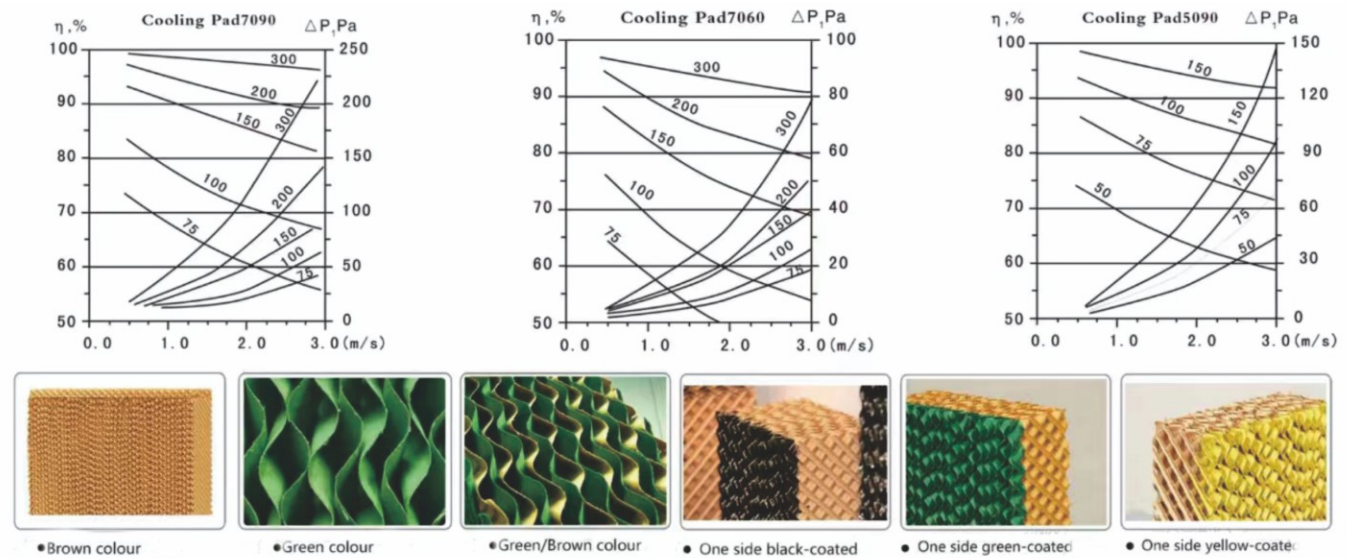
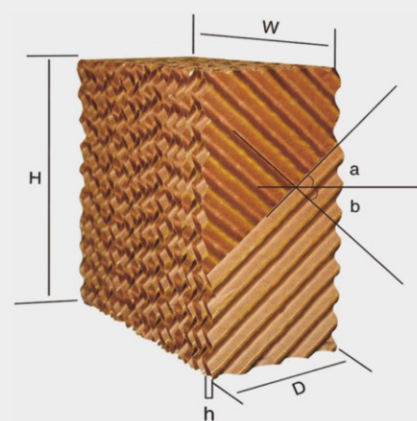
CONNECT cooling pad production line structure is reasonable, operation stable, high production efficiency. The glue drying light box material is stainless steel, there is no rust during high temperature working. There is 8 shifts control for drying light box, the operation is simple, temperature is average, high thermal efficiency, low electric consumption and raise the cooling pad quality. Widen gluing machine. The each step of production machine is strictly focus on the quality control, efficiency in working and pursuing technical innovation.



The cooling pad is using new material and space interacting technology, high absorbing, high anti. Water resistance, anti. Mildew anti. Corrosion, long life time. There is active agent on cooling pad surface, the spreading speed of natural absorbing is fast, efficacy long; One drop of water is completed spread in 4 to 5 seconds. The Natural absorbing height is 60-70 mm/5 minutes, 200mm/1.5hour, match with same field national standard.

The production is strictly follow production standard, there are about 85 pcs of paper for each one pc of 600mm width cooling pad; The quantitative 100g/m², tension resistance 70N, thickness is 0.18-0.20mm, water absorbing height is 45mm/10min. Water contains is 5-8%, wet strength 18N;

The cooling pad don't including any chemical which may cause allergy to skin, there is no harm to human beings, safe, energy saving, environmental friendly and economic use;



SPECIFICATION AND PARAMETER

Item	7090	6090	5090
H(mm)	1500.1800.2000	1501.1800.2000	OEM
W(mm)	900.600.300	900.600.300	OEM
D(mm)	100.150.200	100.150.200	OEM
h(mm)	7	7	5
a (°)	45	45	45
B (°)	45	45	45

* H: Pad height * W: Pad width * D: Pad thickness
 * h: flute height * a: flute angle * b: flute angle

The frame of cooling pad have aluminum alloy and plastic frame with water tank.



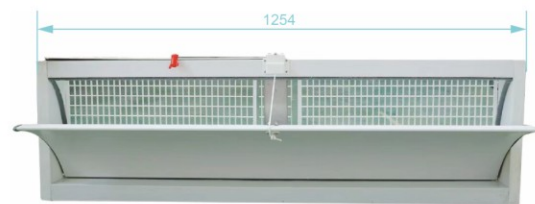
AIR INLET

AIR INLET (SHORT)



- The length of air let is optional or OEM according to client request;
- The air inlet is high strength, anti. Corrosive, deforming, anti.Hot and cold resistance;
- Sealing well and accurate control the air flow.

AIR INLET (LONG)



- Material: ABS engineering plastic
- Driving open
- Installation size(mm): 543*260*123;
- Dimension(mm): 600*325*155;
- Air volume (m³/h) :1200

SPECIFICATION AND PARAMETER

Model	H1-340	H2-340	H3-340
Material	ABS engineering plastic or PVC plastic steel		
Working	Driving open		
Dimension (mm)	600*360*110	800*360*110	1200*360*110
Installation size(mm)	570*340	770*340	1170*340
Air volume(m ³ /h)	≤ 3100	≤ 3800	≤ 5070

AIR INLET (LARGE)



- The air inlet is open and closed with negative pressure;
- Automatic maintain the pressure for inside and outside house (Auto. Adjust the open and close pressure), and make the strong light from the outside become integrated;
- Using top quality panel, good transparency and not easily deformed;
- The hinge material is stainless steel rod, open and close are stable and reliable;
- It is optional work with open and closed winch.

SPECIFICATION

Model	DC1	DC2	DC3
Material	ABS engineering plastic or PVC plastic steel		
Working	Driving open		
Dimension (mm)	600*670*125	945*965*125	1505*1600*125
Installation size(mm)	570*570	7845*865	1405*1500
Air volume(m ³ /h)	≤ 4200	≤ 9318	≤ 26860

LIGHT TRIP



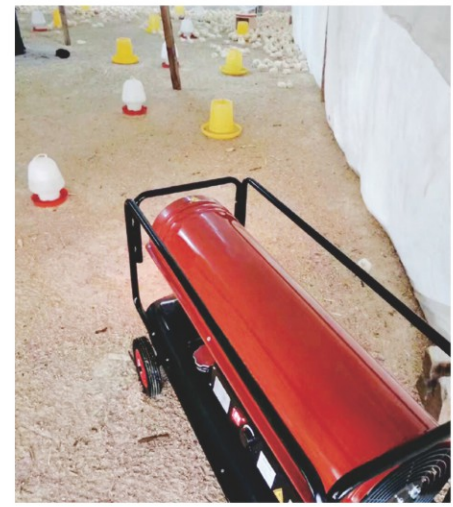
In closed chicken houses, in order to control the growth of chicken and timing of sexual and physical maturity during the breeding period, chicken need different lighting everyday, and natural lighting can't meet this requirement, so artificial lighting time needs to be controlled.

The tile material is glare-free PVC extruded. The products is anti-aging, resistant to chemical agents and can be cleaned under high pressure. The width of tile is 222mm, thickness is 1.1mm, length is optional according to order. The locking tightening parts material is PP, the weight of locker is 47.2g, height is 30mm. The tiles are connected with locker which raise the forced area, which is more strong. The designing is reasonable, convenient in installation. The frame is optional of stainless steel or GI steel.



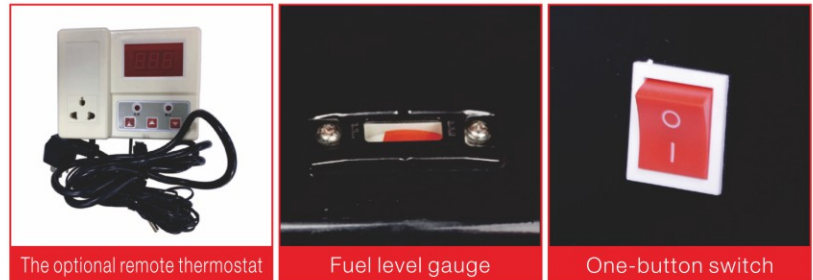
Item	1530	1380	1220	1100	1000	900	830	780	620	270	255
L (mm)	1530	1380	1220	1100	1000	900	830	780	620	270	255
W (mm)	1530	1380	1220	1100	1000	900	830	780	620	560	620
Thick.(mm)	267	267	267	267	267	267	267	267	267	267	267

DH - DIRECT OIL HEATER



HIGH QUALITY COMPONENTS TO GUARANTEE THE RELIABLE AND DURABLE

- High air displacement
- Building in room thermostat and fault diagnostic
- Electronic flame control with photocell
- Stainless steel combustion chamber
- Oil tank with level indicator
- Trolley included
- Easy to move
- Easy maintenance
- Strong and long lasting construction



TECHNICAL DATA

Model	DH-30	DH-40	DH-50	DH60
Max heating output	25KW	35KW	48KW	58KW
	21500KCal/h	30100KCa/h	41280KCal/h	49880KCa/h
Air output	400m ³ /h	700m ³ /h	1050m ³ /h	1050m ³ /h
Motor	100W	150w	250W	250W
Max oil Consumption	2.5L/h	3.5L/h	4.8L/h	5.8L/h
Tank capacity	26L	38L	53L	53L
Electrical supply	220V-50Hz	220V-50Hz	220V-50Hz	220V-50Hz
N.W/G.W	23/24kg	26/27kg	37/38kg	40/41kg
Packing Size(LXWXH)	890×400×430mm	890×400×500mm	1030×450×540mm	1030×450×540mm

DHC-QUIETEST DIRECT OIL HEATER

HEATING, DRYING, LONG-TERM RELIABLE OPERATION!

- Quiet technology, noise lower to 45dB!
- Water-proof controller, durable ignition, independent combustion fan design to withstand harsh working environments;
- Electromagnetic pump with precision fuel filter=low maintenance
- Portable&Stackable!
- Ideal for drying in building sites and heating well ventilated samll/medium premises

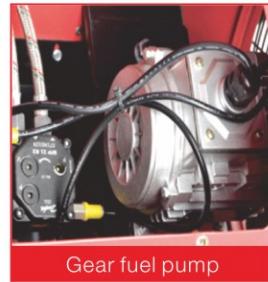


TECHNICAL DATA

Model	DHC-40
Heat output	30100kcal/h
Air output	1000m ³ /h
Fuel consumption	3.5L/h
Tank capacity	50L
Voltage	220V/Hz
Ventilation motor	80W
Burner fan	30W
Electromagnetic pump	35W
N.W/G.W	45/46kg
Packing Size(LXWXH)	890×590×810mm

TORNADO-DIRECT OIL HEATER

- High air displacement
- High pressure gear pump
- Electronic flame control with photocell
- Stainless steel combustion chamber
- Oil tank with level indicator
- Trolley included
- Easy to move
- Easy maintenance
- Strong and long lasting construction



Gear fuel pump



Fue evel gauge



Independent oxygen supplying system



Large wind vane



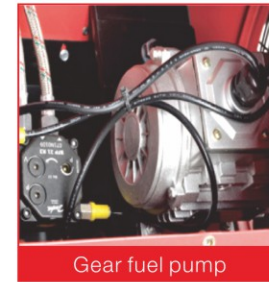
The optional remote thermos

TECHNICAL DATA

Item No.	Tornado115	Tornado135
Heat output(max)	115kw/h	135kw/h
	99100kcal/h	116100kcal/h
Air output	392380Btu/h	460620Btu/h
	5000m ³ /h	5000m ³ /h
Fuel consumption	10.6L/h	13.5L/h
Power supply	220V-50Hz	220V-50Hz
Power of main fan	550w	550w
power of burner fan	150w	150w
Net weight	135kg	110kg
Packing Size(LXWXH)(mm)	1680mm×640mm×1050mm	1680mm×640mm×900mm

MIRAGE-INDIRECT-FIRED OIL HEATER

- High air displacement and High pressure gear pump
- Electronic flame control with photocell
- Stainless steel combustion chamber and heating exchanger
- Oil tank with level indicator
- Trolley included, Easy to move
- Strong and long lasting construction



Gear fuel pump



Fue evel gauge



Independent oxygen supplying system



Large wind vane



The optional remote thermos

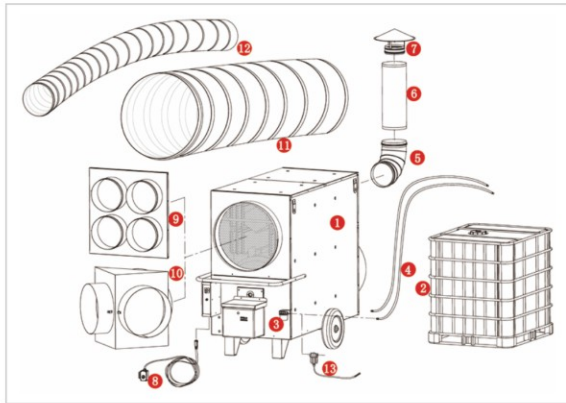
TECHNICAL DATA

Model	Mirage 55	Mirage 85	DH-25PV
Heat output(max)	52.5 kw/h	83.9 kw/h	26 kw/h
	45200 kcal/h	72200 kcal/h	22400 kcal/h
Air output	3000 m ³ /h	5000 m ³ /h	800 m ³ /h
Fuel consumption	4.84 L/h	7.72 L/h	2L/h
Power supply	220V-50Hz	220V-50Hz	220V-50Hz
Power of main fan	370 w	550 w	300 w
Power of burner fan	150 w	150 w	
Net weight	114 kg	135 kg	43 kg
PackingSize(LXWXH)(mm)	1420×495×865	1720×620×1050	1040×500×550

HELIOS-HIGH AIR VOLUME INDIRECT OIL HEATER

120000-200000KCAL/H

- Burner is Riello oil burner, gas burner is optional
- The heat exchanger is stainless steel and efficiency
- Before heating and after cooling of combustion chamber.
- Combustion chamber inspection glass peephole.
- Thermostat: FAN for fan control:
- OVERHEATING: safety thermostat in case of overheating with manual reset.
- Fan: axle or centrifugal



1. Helios heater;
2. 1T oil tank;
3. Filter oil cup;
4. Tubing;
5. Exhaust elbow pipe;
6. The chimney;
7. Raincap;
8. Temperature controller;
9. Four outlet connecting pipe;
10. Double output connecting pipe;
11. Hot air pipe(big);
12. Hot air pipe(small);
13. Heating filter cup;



The optional remote thermostat

TECHNICAL DATA

Model	Helios140	Helios170	Helios150C	Helios200C
Heat output (kw)	140	174	145	195
Heat output (kcal/h)	120400	149200	124700	166700
Heat output (Btu/h)	477747	592026	494810	661466
Efficiency(%)	88	90.3	90.3	90.3
Air output (m³/h)	11000	14000	11000	14000
Air pressure(mmH ₂ O)	9	9	52	53
Power of main(W)	1500	2200	2200	3000
Fuel consumption(Diesel L/h)	13.95	17.29	14.44	19.43
Gas consumption(Natural Gas)	14m³/h	17m³/h	14.5m³/h	19.5m³/h
Pressure(Kpa)	3	3	3	3
Pipe diameter	3/4"	3/4"	3/4"	3/4"
Voltage (V/Hz)	380/50	380/50	380/50	380/50
Net Weight (kg)	235	330	295	400
Stack Dia(mm)	200	250	200	250
Air Outlet Dia(mm)	520	690	520	690
PackingSize(LXWXH)(mm)	1870×920×1500	2400×1100×1800	2190×960×1500	2670×1140×1800

HOT BOX-GAS AIR HEATER

20KW、35KW、65KW

- HB Air Heaters for Poultry and Swine Facilities
- UNOTEC is the pioneer in direct spark heaters. Years of perfecting every aspect of our design
- has led to our reputation for reliability
- durability and serviceability



- The direct-fired Hot Box (HB) is designed to protect farmers investments when the weather turns cold. HB heaters provide consistent, dependable heat that helps control chicken/pig house climate
- Three type output : 20kw, 35kw, 65kw. Direct-fired forced air heater with a centrifugal fan and nearly 100% efficiency, worked by LPG or Natural gas(transformation kit supply)
- HB heaters can be used in all swine production environments and phases including gestation, nursery, and wean-to-finish.

- Optional accessories
- Thermostat
- Chain hanging kit
- Air Diverter
- Second stage regulator
- Sediment Trap
- Outdoor Mount
- Indoor Wall mount
- Gas filter



The optional remote thermostat

TECHNICAL DATA

Model	HB20	HB35	HB65
Heat output (Kca/h)	17200	30100	55900
Air flow (m³/h)	800	800	1700
Fuel Consumption (LPG)(kg)	1.4	2.5	4.6
Fuel Consumption (NPG)(M³)	2	3.5	6.5
Voltage (V/Hz)	220/50	220/50	220/50
Motor power(W)	180	180	550
Weight (KG)	49	51	58
Packing size (mm)	780×410×500	780×410×620	820×500×880

G75-GAS HOT AIR BLOWER



The optional remote thermostat

- G75 hot air blowers, high efficient equipment powered by gas and open combustion.
- The high quality components and robust stainless steel design make G75 air heaters ideally suited for use in intensive livestock breeding and horticulture.
- Air jet up to 50 meters
- Technology equipment based on many years of experience in the field of heat and CO2 generation for horticulture
- Fully automatic operation, because of its electronic ignition flame control

OPTIONAL ACCESSORIES

- Electrical Thermostat (water & dust proof)
- Gas Filter
- Second Stage Regulator

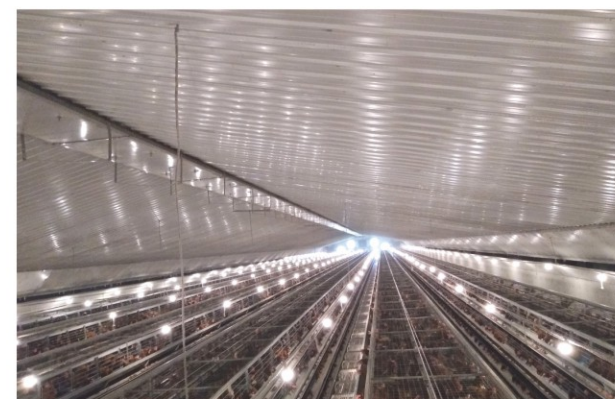
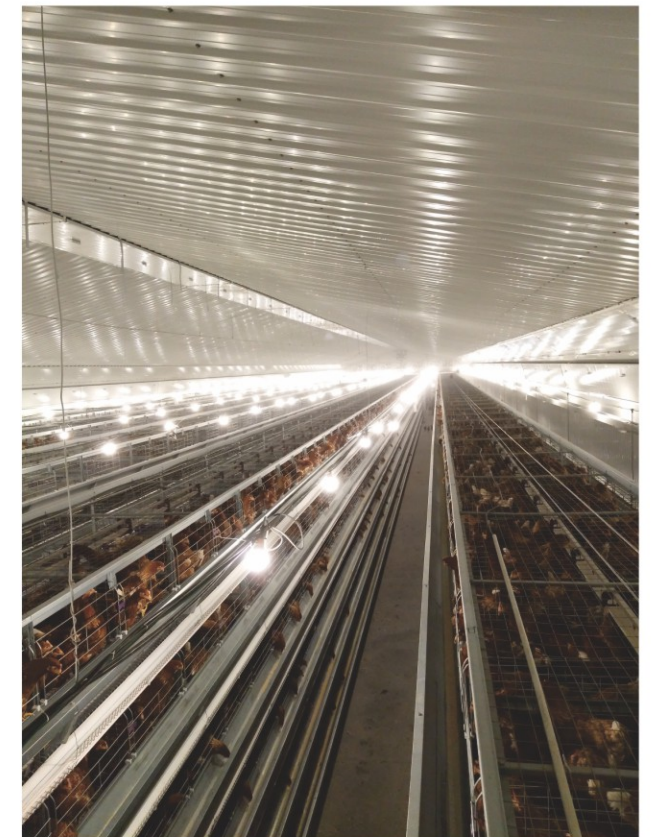


TECHNICAL DATA

Model	G75
Heat output (Kca/h)	64500
Air flow (m ³ /h)	6500
Fuel Consumption(LPG)(kg)	5.7
Fuel Consumption (NPG)(M ³)	7.6
Voltage (V/Hz)	220/50
Motor power(W)	380
Weight (KG)	38
Size (mm)	1130x590x550
Packing size (mm)	1220x720x720

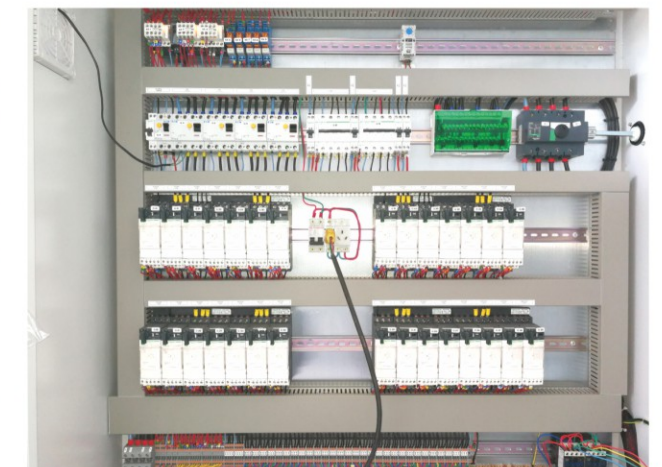
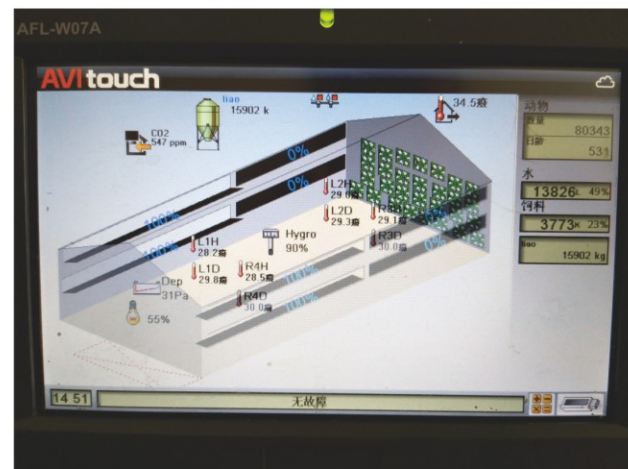
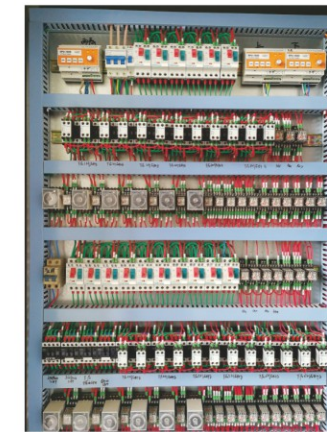
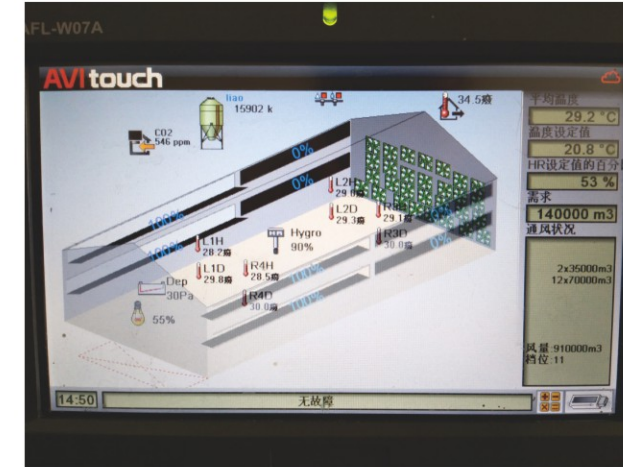
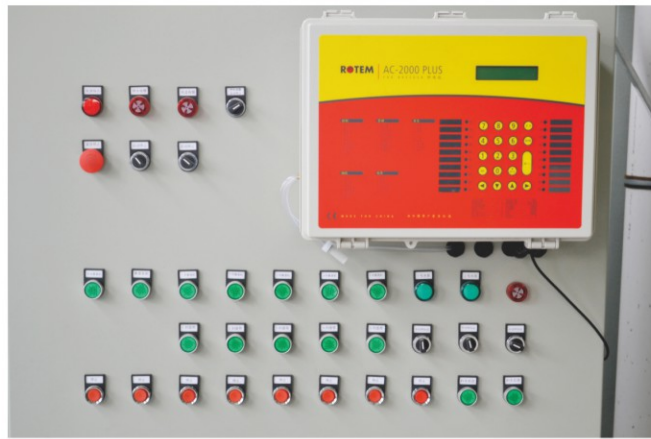
LIGHTING SYSTEM

Appropriate light intensity can increase the egg production of layers, and speed up the meat growth of broilers, strengthen the blood circulation of chicks, increase appetite and immunity and help calcium and phosphorus metabolism and absorption. CONNECT LED lights with its Dimmer achieve the lighting demand for different type of poultry.



ENVIRONMENTAL AND ELECTRIC CONTROL

CONNECT provide our own brand environmental controller to meet different type of poultry raising purpose. But also provide solution for other worldwide brand to achieve clients special request.



FABRICATED STEEL BUILDING

CONNECT turnkey solution for chicken farm house including fabricated steel building. The house design is specially for chicken house ventilation and insulation. CONNECT also provide the steel structure building solution for slaughterhouse, rendering plant building.



INCUBATOR

BOX-TYPE INCUBATOR



19200/16800

TECHNICAL SPECIFICATIONS

- Temp control range: 34.2°C~39.5°C
- Humidity control range: 40%~70%RH
- Temp control precision: $\pm 0.1^{\circ}\text{C}$
- Display resolution for temperature: 0.01°C
- Display resolution for humidity: 1%RH
- Stability of temperature field: $\leq 0.10^{\circ}\text{C}$
- CO2 content inside box during later period of incubating: $< 0.15\%$
- Egg-turning angle: $43^{\circ} \pm 2^{\circ}$ (For ducks: $50^{\circ} \pm 2^{\circ}$)



38400/57600

MAIN CONTROL SYSTEM



Incubator intelligent control system with Chinese display



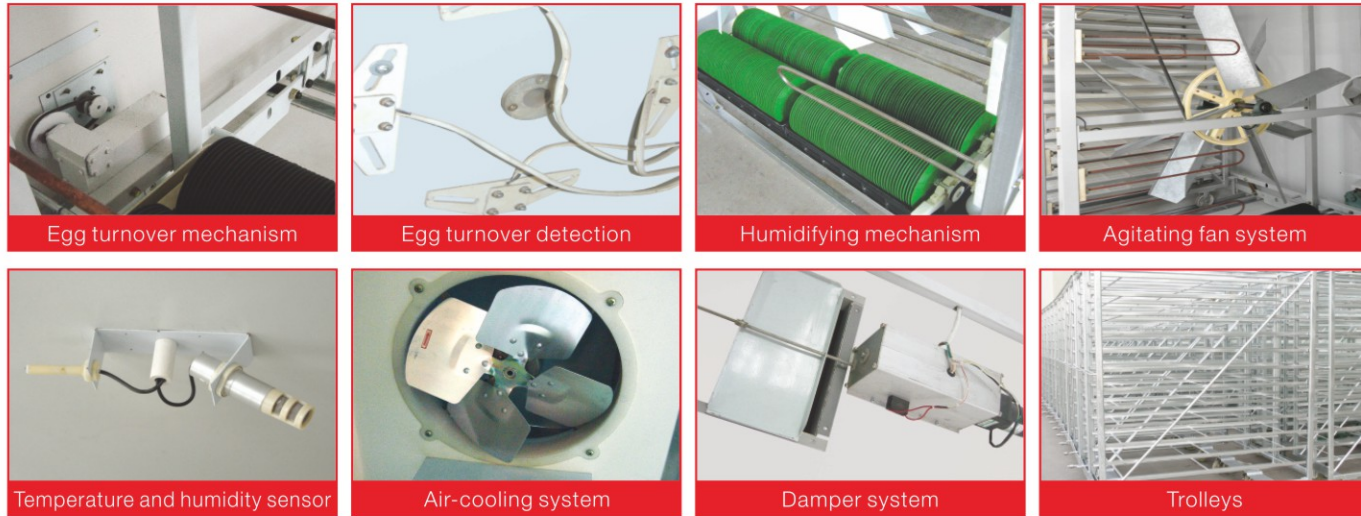
Incubator control system with multifunction display

THE MAIN STRUCTURE

Host machine (fan system, egg turnover mechanism, air cooling system, humidification mechanism, damper system), box (top plate, side plate, back plate, door sheet and profile), control box (CPU main board, power board, relay board and strong electric control circuit, etc.), hatching trolleys (including trays and baskets).

FUNCTIONAL SYSTEM

Agitating fan system, heating system, humidifying system, egg turnover system, air-cooling system, damper system, control system,also can equip with water warming/cooling system and group control system as needed.



THE WORK ENVIRONMENT

- Ambient temperature: 20 ~ 27 °C (The best state)
- Ambient humidity: 50 ~ 70% RH
- Power supply: three-phase five-wire system(three phase lines, center line and grounding line) 380 V / 220 VAC50hz±10%, the special machine use single-phase, each machine's power line shall be equip with a separate control knife switch or air switch with reliable connection; there must be equip with earth leakage protective device in the power distribution system of hatchery, and the center line(zero line) must be with reliable connection and well grounded.
- Water pressure: 3 ~ 5 KgF/cm
- Hatchery requirements: the ground roughness ≤ 5mm within 10 m with drains. Height of the hatchery ≥ 4.5 m, with good ventilation.Exhaust gases from the incubation equipment exhaust through pipes to the outside.

THE MAIN PRODUCTS SPECIFICATIONS OF BOX-TYPE INCUBATOR

Series	Model	Breed	Capacity (eggs)	Trolley qty.× loaded egg qty	Dimensions (L*W*H)mm	Apparent power(Kw)
Setter	EIF(DZ/DMS/TPC)-19200	chick	19200	4×4800	3360×2235×2375	5.84
	EIF(DZ/DMS/TPC)-Y12096	duck	12096	4×3024	3360×2235×2375	5.84
	EIF(DZ/DMS/TPC)-S22528	yellow-feathered broilers	22528	4×5632	3360×2235×2375	5.84
	EIF(DZ/DMS/TPC)-E7680	goose	7680	4×1920	3360×2235×2375	5.84
	EIFDMS-38400	chick	38400	4×4800	3360×3860×2630	9.54
	EIFDMS-57600	chick	57600	12×4800	4500×3860×2630	10.54
Hatcher	EIC(DZ/DMS/TPC)-19200	chick	19200	4×4800	3360×2235×2375	5.66
	EIC(DZ/DMS/TPC)-Y12096	duck	12096	4×3024	3360×2235×2375	5.66
	EIC(DZ/DMS/TPC)-S22528	yellow-feathered broilers	22528	4×5632	3360×2235×2375	5.66
	EIC(DZ/DMS/TPC)-E7680	goose	7680	4×1920	3360×2235×2375	5.66

EI HATCHKING TUNNEL INCUBATOR



THE MAIN FEATURES

- The left and right tunnels are partitioned by our patent technology different sections which are controlled separately.
- The heating and cooling of left and right tunnels are controlled separately.The temperature of major control points in the left and right tunnels can be set different or the same. The unique intelligent temperature adjustment technology makes the temperature in the left and right tunnels consistent.
- Heighten and widen the box size, having stronger adaptability for breeding eggs, which can incubate 50 ~ 82 g eggs.
- PT100 temperature sensors save calibration for temperature and humidity for a long time.
- WINDOWS interface with new graphical touch control makes the operation more simple and intuitive.
- EI remote monitoring management system which is based on the Internet.



The touch display screen



Partition fan,heating and water cooling

EIFXDZ-V-90720 TUNNEL INCUBATOR

TECHNOLOGY INDEX

- Egg capacity: 90720
- Quantity of egg trolleys: 12
- Temperature control range: 35 °C~39.00 °C
- Temperature control precision: 0.1 °C
- Humidity control range: 40~80%RH
- Humidity control precision $\pm 2\%$ RH
- Egg turnover angle: $43 \pm 2^\circ$
- Insulation resistance: $\geq 2 M\Omega$
- Apparent power: 7.0 KW / 9.7 KW
- Power supply: 380/220 VAC $\pm 10\%$ (Three-phase five-wire system)



THE MAIN FEATURES

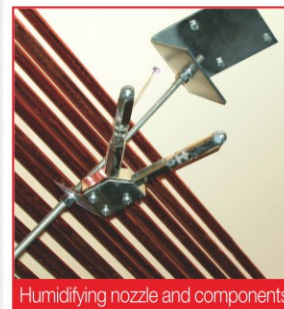
- **Fuzzy control technology:** Fuzzy control technology is using intelligent control to control the temperature of box, humidity, ventilation and turnover timing of breeding eggs which conforms to the development law of poultry embryo.
- **Intelligent thermoregulation:** Compared with the similar equipment both at home and abroad, intelligent temperature regulation technology applied to multi-stage incubation equipment is a major breakthrough in the control technology. Intelligent temperature regulation technology makes the machine inducts temperature change automatically, and then makes appropriate adjustment to the temperature parameters of the machine through the simulated experience. It can ensure that temperature within effective area in tunnel incubator meets needs of different ages of embryos, which can improve equipment performance, facilitate the production management in large and medium-sized hatchery, and effectively reduce artificial frequent temperature measurement and regulation.
- **Super energy-saving:** The capacity of tunnel incubator is large; Using the technics of incubation in batches, making full use of selfheating embryo generating in the later stage for new breeding eggs, and the unique trapezoid temperature field can greatly reduce the heating energy consumption.
- **Saving area:** Compared with the same capacity of box incubation, the area cover of a single egg is saved by 28% and the number of machines reduces by 80%, which greatly reduces construction investment and improves maintenance management efficiency.
- **Heat preservation:** using imported 44mm Dow Keith box board which is beautiful and anticorrosion, and with the good heat preservation effect.



The control panel



Fan, heating and water cooling system



Humidifying nozzle and components



Egg trolley



Egg trolley curtain, air pipe and testing switch



The seal around egg trolley

HATCHERY AUTOMATION EQUIPMENT

Currently, hatchery automation equipment has become an indispensable part of modern production. The young chicks processing including hatching baskets transferring, young chicks and eggshell separation, hatching baskets cleaning, eggshell processing, counting and packaging mainly rely on manual operation, so the large labor intensity, low work efficiency and poor biological security problem restricts the development of breeding enterprises. With labor costs increasing year by year, the domestic large and medium sized breeding enterprises are eager to use the equipment to replace manual operation.

As the domestic largest research, development and production base of incubation and breeding equipment, EI electronics has held absolute leader position, thanks to our technology accumulation, in-depth study of material handling knowledge as well as the ascension of hatchery project comprehensive supporting ability. Our R & D department has been provided the domestic large and medium-sized hatchery with automatic, intelligent, high reliability of hatchery automation equipment including machine for candling & transferring, young chicks processing equipment and hatching basket cleaning equipment etc.



MAIN PRODUCTS

- **MACHINE FOR CANDLING & TRANSFERRING**
 - Automatic machine for candling & transferring with high-speed
 - Semi-automatic machine for candling & transferring
- **CHICKS PROCESSING EQUIPMENT**
 - Transferring & Loading unit
 - Turnover & separation unit
 - Villi and broken eggshells adsorption unit
 - The gender identifying unit
 - Counting and packing unit
- **WASHING MACHINE**
- **OTHER PRODUCTS**

CANDLING & TRANSFERRING EQUIPMENT

The equipment unloads egg trays in the trolley onto the conveyor, identifying live embryo eggs, unfertilized eggs and dead embryo eggs through the egg candling unit, and then transfer kinds of breeding eggs to hatching basket or corresponding conveyors. The equipment can be divided into: "Automatic candling & transferring equipment" and "Semi-automatic candling & transferring equipment". Users can choose suitable products according to your production scale.

AUTOMATIC MACHINE FOR CANDLING & TRANSFERRING WITH HIGH-SPEED

The equipment adopts advanced digital processing technology to identify the breeding eggs, the speed of candling & transferring is 50000 pieces per hour, applying to the standard tray for placing 42 eggs; It can accurately identify live embryo eggs, unfertilized eggs, dead embryo egg before 13 days, which is mainly used for candling & transferring 18 days of breeding eggs in large and medium-sized hatchery.

TECHNICAL PARAMETER

- Working voltage: the three-phase five wire system 380 VAC/50Hz
- Power: 7KW
- Work air source: 0.8MPa
- Gas consumption: 300litres/minute
- Processing speed: 50000 pcs/hour
- Overall dimensions: 8x3.5x2.2 m (the layout, the length and the width can be adjusted according to the room)
- Apply to the tray for placing 42eggs with 75g

THE MAIN FEATURES

- Calculate automatically the total quantity and percentage of live embryo eggs, unfertilized eggs and dead embryo eggs.
- Under the highest speed, 200,000 eggs completed with six people at four hours, and the work process without emotional and environmental impacts.
- 10-inch touch screen animation display, intuitive and clear, easy query historical data.
- Scalable to equipments of taking out trays, arranging trays, cleaning trays automatically in the front and back of the equipment.
- The operator is out of touch breeding eggs in the candling process, to avoid crosscontamination.
- The eggs sucker can be cleaned on-line without disassembly.
- The equipment frame adopts 304 stainless steel, elegant appearance, easy to clean, strong corrosion resistance.
- Regularly remind the maintenance.



Touch screen of the automatic machine for candling & transferring



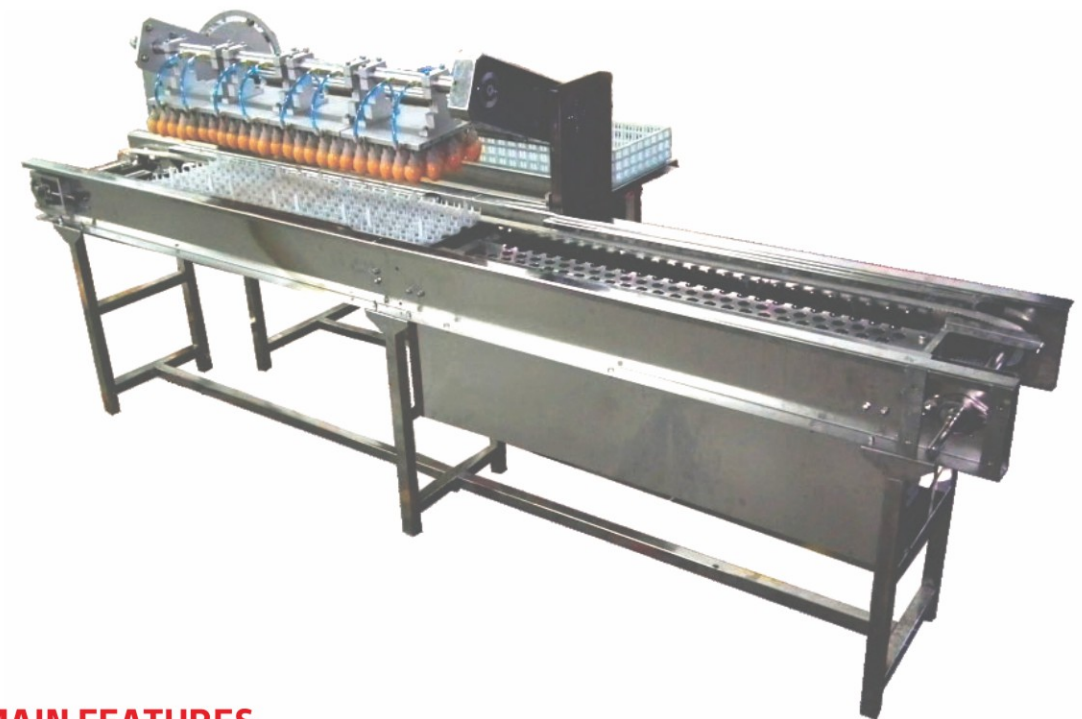
SEMI-AUTOMATIC MACHINE FOR CANDLING & TRANSFERRING

Semi-automatic machine for candling & transferring adopts the whole tray candling technology and identifies breeding eggs with artificial recognition. The speed is 40000 eggs per hour and applicable to a variety of egg tray for chicks and ducks. The equipment operation is simple; it can reduce the labor intensity, increase candling efficiency by about 30%, and effectively reduce the damage rate of breeding eggs.

EQUIPMENT COMPOSITION TECHNICAL PARAMETER

mainly consists of: egg tray conveying line, swing arm fall tray manipulator, the whole tray candling light source, hatching basket platform and electrical control cabinet.

- Falling speed: 40000 / hour
- Work air source: 0.8 MPa
- Gas consumption: 170 cube/hour
- Apparent power : 2.5KW
- Working voltage : the three-phase five wire system 380 VAC/50 Hz
- Overall dimensions : 3.5x2x1.8 (meter)



THE MAIN FEATURES

- The whole tray candling and falling
- Operators identify the unfertilized eggs and dead embryo eggs
- The tray falling with swing arm manipulator, reduce labor intensity.
- Scalable to equipments of taking out trays, arranging trays, cleaning trays automatically in the front and back of the equipment.
- The equipment frame adopts 304 stainless steel, elegant appearance, easy to clean, strong corrosion resistance.

FRONT-END EQUIPMENT FOR CHICKS PROCESSING

transferring & Loading unit mechanically transferred hatching basket in Hatcher to Turnover & separation unit assembly line. Turnover & separation unit automatically empties hatching basket, and separates young chicks and eggshell. The seamless connection of these three modules forms the front-end equipment of young chick's treatment, the control units are very high degree of automation.



WORK PROCEDURE

Operators pull out two hatching trolley from Hatcher, push into positioning device of Transferring & Loading unit, press the start button, the system automatically transfer two-columns hatching basket with three-layers to roller table line after detecting the hatching trolley, hatching basket mechanism push baskets into the keel chain conveyor at three times. Baskets emptied automatically after going turnover mechanism, empty hatching basket are delivered in hatching basket washing machine for cleaning and disinfection. Young chicks and the egg shell dumping on the conveyor belt are separated in the roller separation unit, and egg shell and unhatched egg are centralized processing delivered into the garbage disposal room by conveyor, young chicks be delivered to the next station through chain conveyor for selecting, gender identification, injection and immunization, counting, and packing and so on.

MAIN FEATURES

- The front-end line of young chicks handles with 60000 chicks per hour, greatly improve production efficiency, and reduce the workers labor intensity.
- Thoroughly improve working conditions for workers.
- Reduce the direct contact with the man and the young chicks, avoid the pollution and cross infection, and improve the biosecurity standards.



Transferring & Loading unit



Turnover unit



Separation unit

VILLI AND BROKEN EGGSHELLS ADSORPTION UNIT

mainly consists of: cyclone dust removal equipment, pneumatic conveying equipment, feed tank and filter, etc.

EQUIPMENT COMPOSITION

- Cyclone dust removal equipment will remove small eggshell on net chain conveyor and achieve the complete separation.
- Pneumatic conveying equipment put these small and big eggshells together into the feed tank.
- Adsorp the villi in the air, reduce the fibrous villi content, and make villi content in the hatchery according with international standard.



BROKEN EGGSHELLS ADSORPTION UNIT

THE GENDER IDENTIFYING UNIT

The gender identifying unit mainly includes: gender identification rotary, immune and counting rotary, unhealthy chicks selection rotary, etc. The most important is gender identification unit, which is the working platform for gender identification in the chick process.



Gender identify turntable with 20 work positions(5.6 meters in diameter)



Injection immune turntable with 10 work positions(3.3 meters in diameter), with pneumatic syringe

Gender identification rotary

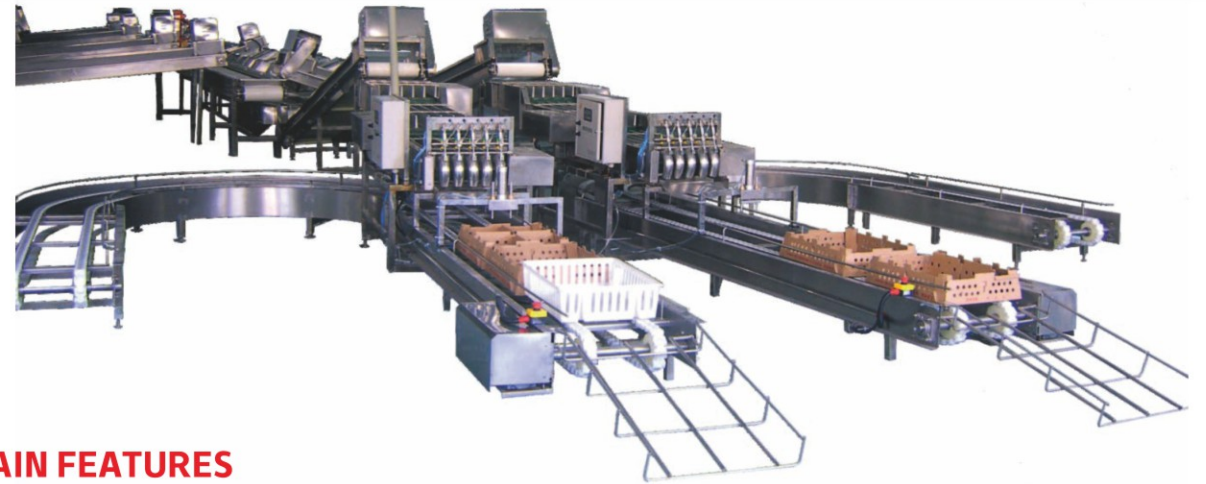
The gender identification rotary is suitable to identify the feather growth, feather color and anal anus of day old chicks. According to the diameter of the rotary, 6~20 identify positions could be provided. Every identify position has two funnels. With the movement of the rotary, the chicks are put in the corresponding funnel. Different gender chicks in the working positions are converged to the corresponding motor carrier, and sent to the next working positions.

Vaccine injection rotary

The vaccine injection rotary is suitable to inject vaccine for day old chicken. It can provide 6~20 vaccine injection working positions, which could be configured with airpowered injectors or single channel high-precision counter equipments.

CHICKS COUNTING AND PACKAGING UNIT

Mainly consists of: picking up work table, young chicks conveyor, counting conveyor, and U-shaped keel chain chicks box conveyor.



MAIN FEATURES

- **High counting efficiency:**the counting ability can reach more than 30000 chicks per hour.
- **More accurate counting and packing:** the counting accuracy is about 0.3%. People will become fatigue with the extension of the labor time, so the artificial counting is uncertain, thus affecting the counting accuracy.
- **Apply to various hatching basket:** the 95% hatching basket in domestic in the current (including plastic crate and carton) can be used in this equipment.
- **No damage to chicks:** It avoids the obvious and potential damage factors in the structural design of the equipment. The running speed of conveyor can not only ensure counting efficiency, but also can ensure the chicks safety effectively.
- **Software adaptability:** the control software of the equipment can correct key parameters automatically according to the length of chicks, making the system keep accuracy in any conditions.
- **Concise and reasonable man-machine interface:** the quantity of each basket can be set, and show the chicks quantity of current basket and total box number.
- **More scientific epidemic prevention:** greatly reduce the chance of workers contact chicks directly in hatching workshop, having a very positive meaning to prevent cross infection between people and chicks.
- **Anticorrosive and easy to wash:** The metal material of the complete equipment use the high quality stainless steel, the protection level of electrical components needing flush in above IP65, which is safe and reliable.



Counting and packing unit with two-paths



Counting unit