



# Huabo Product Catalog

Broiler-Breeder Complete Poultry Farm Equipment Solution



## Huabo In China

Huabo is one of the earliest companies in China to supply poultry equipment and a professional manufacturer with 33000m<sup>2</sup>, which is located in Hetao industrial park of Chengyang district Qingdao City. Huabo products include poultry drinking system, auto-feeding system, ventilation system, steel&plastic building system. Huabo has the ability of study, engineer designing, manufacture and installation service of poultry equipments. The decades of development made Huabo from a manufacturer to service providers which can design the complete standardized project based on professional farming perspectives and customer benefits.

What we focus on is for farming simpler, more fun, and more effective. Based on the purpose of craftsmanship spirit in the manufacture and construction, as well as service spirit in contacting with the design, we win the trust of the farmers customers.

We have about 20 distributors in various regions of Asia, Western Europe, Africa and North and South America.

We are willing to accompany customers to grow together, Huabo own reputation according to creating wealth for customers.

Huabo family tied to poultry world.



**For Broiler**



**For Breeder**

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## Feed silo



- 275g/m<sup>2</sup> two-sided galvanized sheet with the features of high intensity, anti-corrosion, long service life and easy to install.
- 4 different specifications and 12 model numbers can meet the different feed storage requirements.
- Special top cover opener design, easy to operate in windy weather.
- Special designed brim on the joint of hopper body and hopper panel and seal strip between panel sheets can prevent rainwater entering the silo to cause moldy.
- Special designed hopper panel can avoid feed piling up.
- Equipped ladder and window are convenient for maintaining the equipment and checking feed condition.



- Different boot and outlet can fulfill complex feed conveying requirements.



- Customized pneumatic feeding system.

## Specification

### Diameter 1.815m silo w/60°Hopper

Model	Capacity(T)	Cubic measure (m <sup>3</sup> )	Height (m)
18-0060-1	2.5	4.2	3.6
18-0060-2	4.0	6.5	4.5
18-0060-3	5.0	8.8	5.4

### Diameter 2.723m silo w/60°Hopper

Model	Capacity(T)	Cubic measure (m <sup>3</sup> )	Height (m)
27-0060-1	7.0	11.8	4.8
27-0060-2	10.0	17.0	5.7
27-0060-3	13.0	22.2	6.6

### Diameter 3.050m silo w/60°Hopper

Model	Capacity(T)	Cubic measure (m <sup>3</sup> )	Height (m)
30-0060-1	9.0	16.0	5.0
30-0060-2	13.0	22.5	5.9
30-0060-3	17.0	29.0	6.8

### Diameter 3.630m silo w/60°Hopper

Model	Capacity(T)	Cubic measure (m <sup>3</sup> )	Height (m)
36-0060-1	13.0	21.7	5.0
36-0060-2	19.0	30.9	5.9
36-0060-3	25.0	40.1	6.8

## Feed weighing system



- Optional weighing system, free switching between manual and automatic, manual function is easy to learn and can fulfill single feeding and clocked feeding, save labor cost and improve efficiency.

## Feed conveying system

- One silo supply one house



- One silo supply two house



- Two silo supply one house



- Conveying system in poultry farm





## Broiler pan feeding system



- Feed pan is ideal for whole raising period from brooding to slaughter. The suitable pan height is easy to get feed. 360° feed distribution improves uniformity.
- Special designed feed cone with wings prevents feed waste.
- Control pan ensures fresh feed supply, provides hygienic feed to birds and excellent feed conversion rate.
- Convenient adjustment of feed level.
- Feed pan is available to rotate 360 degrees, available to swing vertically or fix without rotation.
- Optional shut-off slide, suitable for partition feeding.
- Special hinged-type opening at bottom for easy cleaning and disinfection.
- Adjustable feeding line of optional position for different period birds. When cleaning, easy to lift.

## Rearing specification

Final weight: 1.8kg

Final weight: 1.8kg

Birds/pan	57-91	57-85
Density (birds/m <sup>2</sup> )	16-20	12-16
Max daily feed intake	170g	175g-220g

## Product specification

Feed pan	Diameter	330mm
	Material	pp
	Pan capacity	300g
	Number of grill	14
	Grill hole size	60mm
Pipe & auger	Material of pipe	Hot galvanized
	External diameter of auger	45mm
	Distance between feeder	1000mm / 750mm
	Max feeding length	150m

Drive motor	Drive motor specification	1.1kw 380v 50hz/0.75kw 380v 50hz
	Delivery capacity	≥450kg/h
Hopper	Capacity	70kg



- **Hopper for broiler pan feed line**

Hopper location: hopper installed at the end of the feed line or middle of the feed line to realize automatic feed delivery, feed delivered equally to each feed pan.

Hopper installed at middle of pan feed line for fast feed delivering from hopper to each feed pan for those long length feeding lines.



- **Hopper feed level controller**

Using feed lever sensor or micro-switch in hopper for automatic feed lever controlling.

To control drive motor on-off, when there is feed in hopper, motor will be on for movement, when the feed in hopper under micro-switch, motor will be off for movement, this device forbid motor keeping movement when there is no feed in feed pipe.



- **Sectional brooding using AFS feed level sensor**

Feed controlling with feed sensor to satisfy sectional brooding needs. During brooding period, generally AFS feed level sensor is placed in the fourth or fifth pan of brooding district to realize sectional birds brooding.



- **Brooding using partial feeding lines**

Using partial feeding lines for brooding, during brooding period, the sensor is placed at the front of the end control pan.





- **Hopper capacity**

We have 70kg hopper, 90kg hopper and 120kg hopper for broiler pan feed line.

Using extension parts to increase hopper capacity to meet with clients request for large capacity hopper.



- **Feed line hanging system**

For hanging rope, we have 3mm stainless steel wire, 3mm galvanized wire, as well as 6mm nylon rope for clients' request. We recommend 6mm nylon rope better.



- **Feed pipe connector**

Using pipe clamp to fix feed pipe together.



- **Motor for broiler pan feed line**

We have two types motor for client's choice.

Split-type motor and integrated-type motor, we recommend split-type motor better, which save maintenance cost for long service time.

## Broiler feed pan



- High quality 100% PP raw material.
- Plug without turn button is easy and convenient for installation.
- Feed pan can rotate in horizontal 360 degree and be installed in vertical swing or fixed way.
- Easy and convenient feed level adjustment.
- Top support has the shut-off slid which can meet the customer's brooding and group expansion requirement in different areas.
- Pan bottom and grill are locked together by the hinge. It is easier for completely washing and disinfection.
- Special designed feed cone flange can avoid the feed waste because of the chick's peck.
- The smooth pan edge can prevent the broiler's chest being injured. The chicks can eat feed comfortably.
- Pan bottom can be used as the chick's food pan separately.



- Handy feed level adjustment ring  
Control different feed level in pan.  
6 level settings



- 14 feed grilles  
14 grilles with perfect distance to broiler.  
Strong enough for long time using.  
Lets birds line up around the pan.



- Pan bottom  
The undulated ring pan bottom perfectly keep feed inside with less feed wasted.  
Easily washing through high pressure water.  
Height: 53mm  
Double ring design  
Large feed trough



- Feed cone  
The special cone wings prevent birds from flicking the feed. With feed windows and wings prevent feed spillage. Anti-swing.



- Shut-off slide  
Could manually adjust the shut-off slide when there is no needed feed in one pan.To control feeds flow.



- Pan head  
Strong connection to feeder tubes.

## Specification

Diameter	330mm
Material	pp
Pan capacity	300g
Number of grill	14
Grill hole size	60mm
Birds/pan	40-55 birds
Color	yellow/customized

## Breeder pan feeding system



- Optima space use,high breeding density,and each feed pan provide 16 feeding space.
- Uniform feeds distribution  
Efficient and smooth chain feed conveying system delivery feeds to each pan simultaneously.
- With inner and outer grille,allows adjustment of feeding space,to prevent male eating female feeds.
- The slide-able shutter of pan can satisfy with partition breeding.
- Guide plate on the cone can prevent feed spillage.
- Smooth treatment of feeder prevent bruises.
- Reliable drive unit.
- Satisfy with different period of birds.



## Rearing specification

Quantity(Birds/pan)	14-16
Density(Birds/m <sup>2</sup> )	5-6.5
Max daily feed intake	175g

## Product specification

Feed pan	Diameter	360mm
	Material	pp
	Grill spacing width	40-50mm
Feed trough	Material	Hot galvanized sheet
	Distance between two pans	750mm,800mm,900mm
Drive unit	Drive motor	2.2kw
	Conveying capacity	>2000kg/h
	Conveying speed	36m/s
Feed hopper	Capacity	280kgs;350kgs
	Max/1 loop/1 drive unit	150m
	Max/1 loop/2 drive unit	150-300m



### Driver Motor

- The chain drive unit is always separate from feeder to adapt to any house situation.
- The chain speed : 36m/min.
- Usual output of motor : 2.2kw.
- But customer could choose the motor according to the chain's length.



### Feed Channel with Chain

- High speed chain, big feed capacity.
- Delivery capacity: 2 Tons/H.
- High tensile strength.
- Chain works smoothly in the trough.
- Easy maintenances.
- Feed trough: 4 holes/3.6m, 900mm; 4 holes/3.4m, 850mm.



#### 90°Corner

- The special design corner with high quality
- Fully hardened guide rail
- Lubrication-free corner wheel with plastic bushing



#### Big capacity hopper for breeder feeding system

- Material: hot galvanized sheet
- 280kgs or 350kgs



#### Galvanized feed channel

- Size:
  - 3m with 4 holes;
  - 3.2m with 4 holes;
  - 3.4m with 4holes;
  - 3.6m with 4holes.



#### Hanging system for breeder pan feeding system

- Automatic winch and manual winch are available for easy operating.

## Breeder feed pan(female)



- Make full use of the feeding space, high feeding density, every pan can feed 16 chickens.
- Spread the feed uniformly.
- Inside and outside grille structure, adjustable height and width to prevent cock eating feed in hen's pan.
- Top support has the shut-off slid which can meet divisional feeding requirement.
- Special designed feed cone flange can avoid the feed spill.
- The smooth pan edge can prevent the broiler's chest injured.
- Reliable controlling unit.
- Satisfy feeding requirement in different growing period.
- Pan bottom and grill are locked together by the hinge. It is easier for completely washing and disinfecting.

## Components



- ①Top support:strong connection to feeder pipe,easy to disassemble.
- ②Feed cone and feed level ring.
- ③Feed grille adjustment.
- ④Double-loop trough pan dish.
- ⑤Outer grilles.
- ⑥Inner grilles.

## Breeder feed pan(male)



Suggested combinations	Cock( Male chicken)
Quality of birds/pan	6-8 birds/pan
Average age at removal (weeks)	65
Max daily feed intake (grams/bird)	130-150kgs
Material	PP,Raw material
Diameter	360mm
Average pan contents	350g
Grille	5



## Transport specification

Auger tube material	Galvanized sheet, 275g/m <sup>2</sup>
Outside diameter tube	45mm
Thickness tube	1.2mm
Hole tube	4 holes/3m or 3 holes/3m
Power Unit	0.75kw(1HP), 3 PHAES, 50HZ/60HZ
Average transport capacity	450kg/h
Auger origin	South Africa

## Breeder chain feeding system



- High conveying velocity 2.0t/h, convey the feed to the whole house quickly and evenly.
- After feeding, the circle line can be risen up and provide more activity space for the chickens.
- After sending the chickens away, it is easier for cleaning and disinfecting the house completely.
- Reliable working, low fault rate, low maintenance cost, long service life
- Drive motor is selected as the feed line length. The height is easy to adjust.
- 90°corner with hardening chain pathway, high rigidity, hard-wearing nylon bearing
- Hopper is made of galvanized sheet in pressing process, no welding, anti-corrosion, size and volume can be customized.
- Customized trough grille size, low feed wasting rate, special designed joint can ensure the trough straightness level.
- High rigidity chain, good hard-wearing
- Adjustable trough support can satisfy the birds' feeding requirement in different day age.

## Components



### Drive unit

- Chain speed: 36m/min.
- Motor output: 1.1/1.5 or 2.2kw, depending on the chain length.
- Simple height adjustment.



### Feed hopper

- Galvanized sheet.
- Regular size: 150kgs, 250kgs.
- Size can be customized.



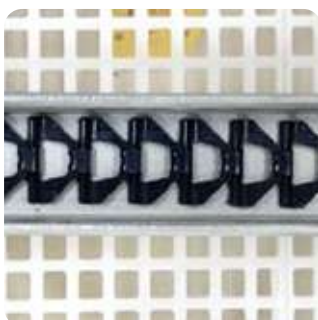
### 90° Corner

- Hardened guide rail.
- Plastic bearing which needs no lubrication.
- Solid housing with detachable cover.
- High functional reliability, minimum wear and tear, easy to maintain.



### Feed trough with grill

- Standing version.
- Feed grill available in many different versions, regular size: 1.5m length, 6 wire, width: 42mm.
- Minimum feed losses.
- Trough coupler ensures a perfectly straight feed line.



### Chain

- High strength and good abrasion resistance chain from South Africa.



#### Support leg

- Height of the feed trough can be adjusted according to different raising period.

### Reference values of chain feeding system

Stocking density( birds/m <sup>2</sup> )	4.5-6.5
Type of feeding	Controlled
No. of birds/m of trough	13
Feed demand/ bird/day(g)	130-185g