

## **HYTEM Installation Visit Kangrui Ecological Agriculture Co.,Ltd    Jiangsu Province**

Kangrui Ecological Agriculture(KEA) is one of group farms under Kangde Egg Industry Co.,Ltd, 2 million birds operations with table eggs, powder & liquid eggs.

Major facilities of KEA are 12 of layer houses with HYTEM EFA(Egg Farm Automation), 100,800 birds/house, 8 tiers, 5 rows, 84.42m of cage row directly connected with Packing Center and Feed Mill.    Cage is 67 cm wide, 64 cm deep with 10 birds, equipped with Eco Breeze and Plate Dryer (Manure Drying system by Exhaust air).

HYTEM installations have been completed in December 2020.

The outside of houses ;

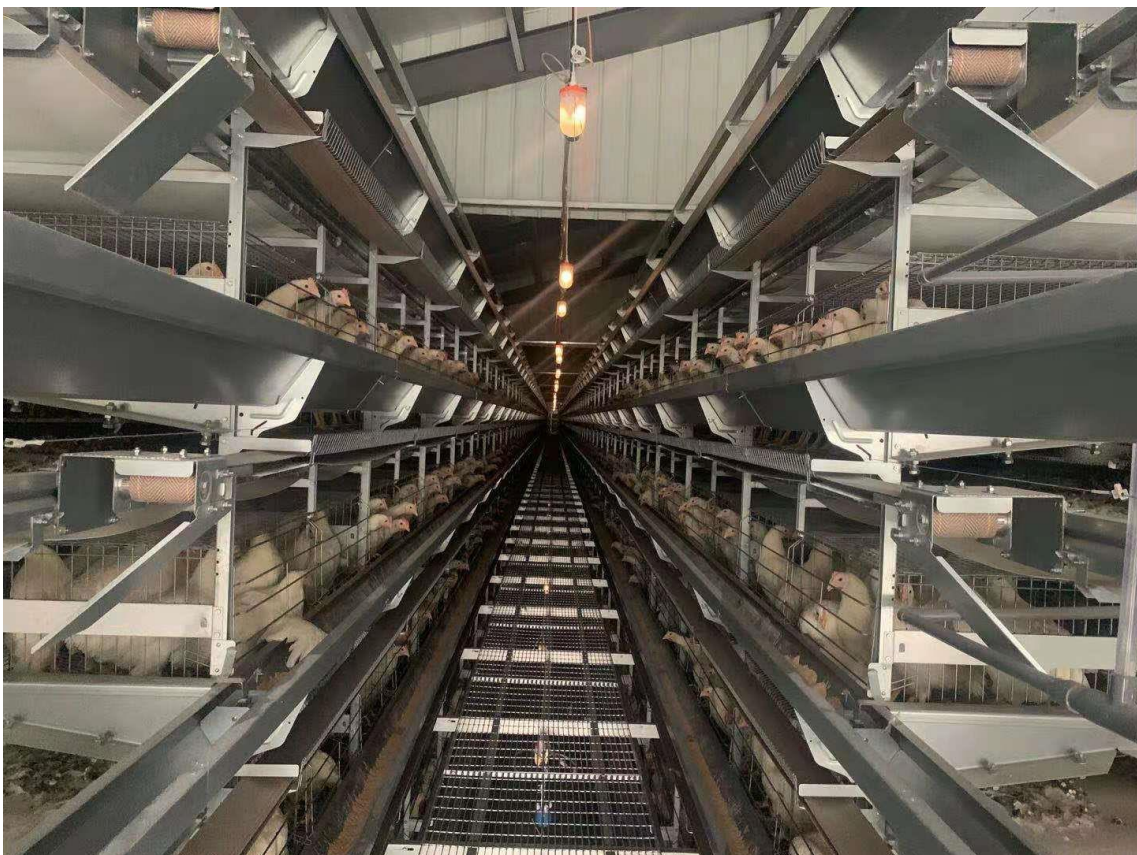


The inside of the house ;





With birds;



1/3 of houses are with white birds



Japanese egg producers' visit in 2018;



At Kangde group's show room;



## Interview



Mr. Ren  
General Manager



Mr. Chen  
Vice General Manager



Interviewer, J. Ghen  
Hytem Sales Engineering Group  
/ in charge for China & Taiwan

**Q: I understand, you have an experience of EFA (Egg Farm Automation) at another farm before you joined KEA. How is HYTEM comparing with EFA you have experienced ?**

A: HYTEM is solidly made compared with EFA I experienced at the previous farm. Eco Breeze is only by HYTEM, by which manure is dryer, and air inside of cages is constantly being changed, that is giving the better environment especially in winter time. The temperature difference between front and rear side of the house is less by HYTEM, which is realizing more uniform body weight, and feed management is becoming easier. KEF is at the stage accumulating flock management knowhow. We are searching to find the most desirable house temperature in winter time.

**Q: How is your experience with SC102\* ?**

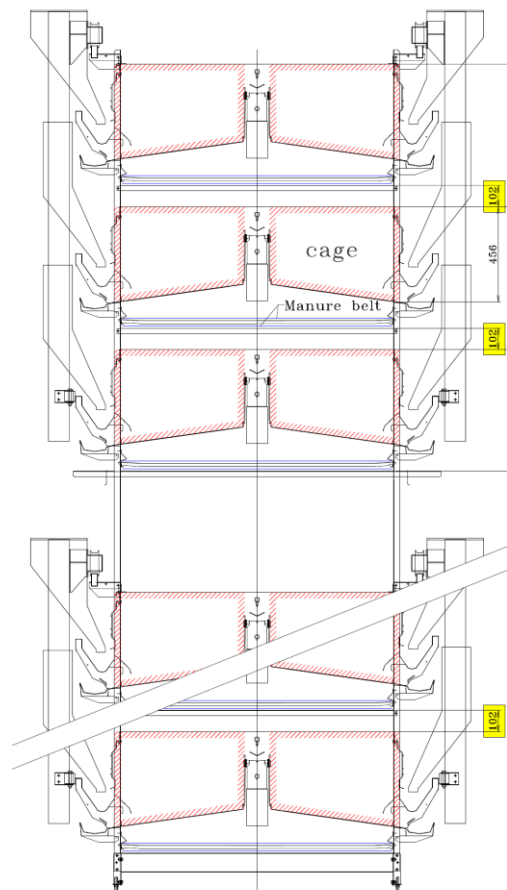
A: In summer time, when humidity is more than 80%, Cooling pad is not working effectively.

In such circumstance, high air velocity through SC102 is effective to lower birds' perceived temperature cooling birds' crest. And, coccidia is completely get rid of by SC102. Summer of this area in Jiangsu is hot and humid, and we were hit by the strongest heat wave last year, in which we had not any flock damages. We are satisfied with SC102, even though we invested some extra amount, finding it is working.

\*SC102 is Optional specification which has more space between Cage top mesh and returning Manure belt, in which following advantage can be expected.

1. Birds cannot reach and pick manure on the surface of the returning manure belt, which will prevent coccidia.
2. The higher air speed can be expected at this zone in summer time, which will give cooling effect to birds.

Another type of SC is SC26, which will bring above advantage Item 1.





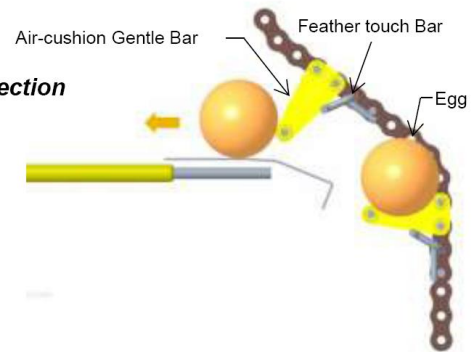
## HYTEM New Elevator GC Series

### Keys to no crack eggs

There is another key besides **3 keys** referred in HYTEM catalogue

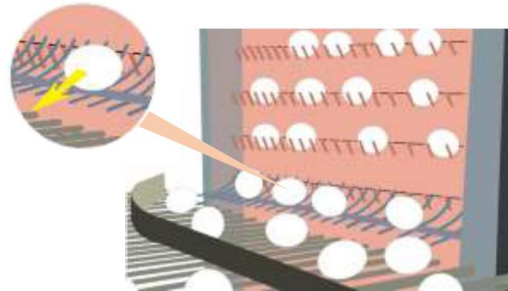
#### Horizontal in turn transfer

1. Eggs are transferred *slowly and gently in horizontal direction*
2. Eggs are transferred in turn by *100% Traffic control, without any collision with eggs in other tiers*

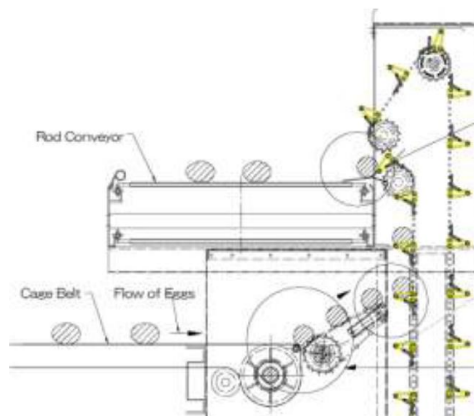


#### All tiers simultaneous slope transfer

Egg cracks are unavoidable due to *the accelerated slope simultaneous transfer from all tiers*



#### 3 Keys



#### 3 Feather touch Bar

Reliably ejects the eggs on the Gentle Bar. The Feather touch Bar especially demonstrates its full ability with small eggs laid in the hens' initial egg-laying period and when there is condensation on the Gentle Bar in the cooling pad layer house in summer. **Patented**

#### 2 Air-cushion Gentle Bar

Receives eggs softly with an "air-cushioned" effect.

#### 1 Control Conveyor

Aligns eggs sideways to transfer eggs smoothly to the Gentle Bar. Waits the Gentle Bar exclusively for its own tier by **100% Traffic Control**.

## HYTEM New Elevator G Series

### Field test example

- 1)date : 16th (Wed) October 2013. 8 : 00-16 : 00  
 2)place : K farm, eastern part of Japan  
 3)house : 6tiers 2rows length: 62.22m (19,584 birds/roomx2 rooms)

room	Strain	Day old
No.1	Julia Light	184
No.2	Julia Light	702

- 4)Sample eggs were collected at;  
 ①In front of cage(i.e. on the egg belts) : each room 1,000. total 2,000 eggs  
 ②On the cross conveyer after Elevator  
 each room 1,000. total 2,000 eggs
- 5)Survey : 4,000 eggs were chekked one by one carefully by transmitted lighting  
 Egg shell strength and thickness were also checked
- 6)Surveyor : Wagatsuma, Yasuda, Iwata and Takebayashi
- 7)Results :

Room Day old	Samples collected	Sample	Spider's web	Stars/ Lines	Pinholes Holes	Depressed	Cracked	Total
		Cracked ratio						
No. 1 184	Egg belt	1000 <sub>eggs</sub>	2 <sub>eggs</sub>	1 <sub>egg</sub>	2 <sub>eggs</sub>	1 <sub>egg</sub>	0 <sub>eggs</sub>	6 <sub>eggs</sub>
		Cracked ratio	0.2%	0.1%	0.2%	0.1%	0.0%	0.6%
	Cross conveyor	1000 <sub>eggs</sub>	0 <sub>eggs</sub>	0 <sub>eggs</sub>	4 <sub>eggs</sub>	0 <sub>eggs</sub>	0 <sub>eggs</sub>	4 <sub>eggs</sub>
		Cracked ratio	0.0%	0.0%	0.4%	0.0%	0.0%	0.4%
Estimated ratio of cracked eggs by Elevator.								-0.2%
No. 2 702	Egg belt	1000 <sub>eggs</sub>	2 <sub>eggs</sub>	12 <sub>eggs</sub>	4 <sub>eggs</sub>	2 <sub>eggs</sub>	3 <sub>eggs</sub>	23 <sub>eggs</sub>
		Cracked ratio	0.2%	1.2%	0.4%	0.2%	0.3%	2.3%
	Cross conveyor	1000 <sub>eggs</sub>	2 <sub>eggs</sub>	8 <sub>eggs</sub>	8 <sub>eggs</sub>	2 <sub>eggs</sub>	4 <sub>eggs</sub>	24 <sub>eggs</sub>
		Cracked ratio	0.2%	0.8%	0.8%	0.2%	0.4%	2.4%
Estimated ratio of cracked eggs by Elevator.								0.1%

