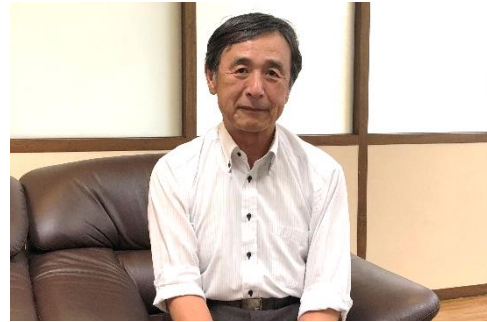
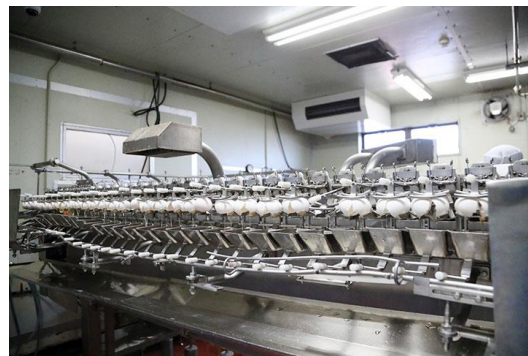


HYTEM Installation Visit Tanigumi Farm

Tanigumi Farm, installed in 2018 through 2019 and located 1 hour driving distance from Hytem HQ is one of egg farms belong to Kameya group, which is a financially strong egg integrator from feed to fresh eggs and egg products started in 1950 concentrating to the greater Nagoya area.



Mr. Yamazaki, CEO of Kameya group



Kameya's Egg Products Factor



Another egg farm Ukino farm, 250,000birds by 8 rooms in 2 of 2 storied house, equipment of which supplied from Hytem in 1997



Ukino's fresh egg vendor at a drug store

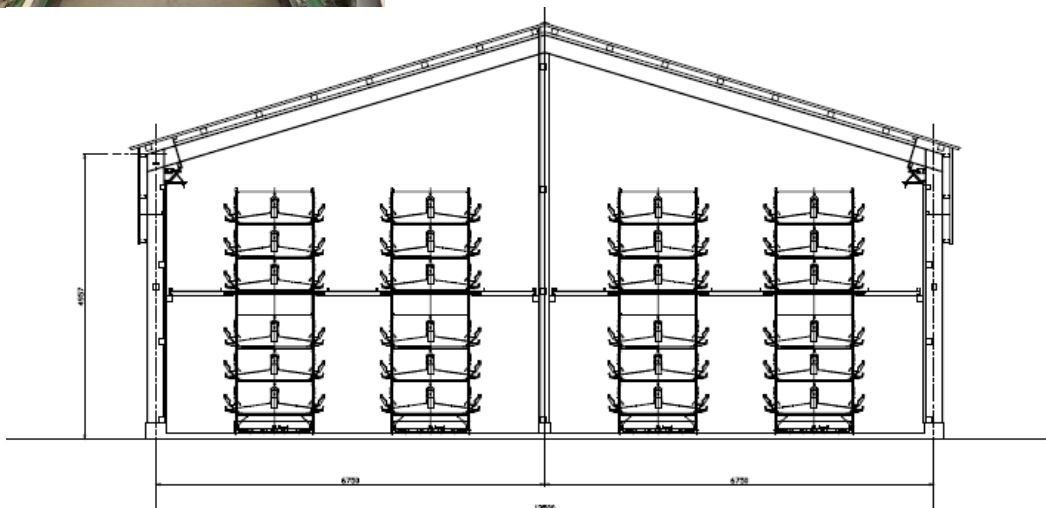
Interview



Farm Manager Mr. Nakamura



Interviewer, Nawa
HYTEM Sales Engineering Team



Cross sectional of Cage row

Q : How is your flock performances including crack ratio and ease of daily maintenance using HYTEM equipment at 10 rooms (20,160birds/room, 2 rooms/house) ?

A: Flock performances are quite satisfactory having 97~98% peak production and over 90 average production up to 700 days old.

We have adopted 6 tiers with the intermediate aisle, while 8 tiers with the intermediate aisle are usually used in Japan, by which observation of each top tier(3rd and 6th tier) is the easier at the eyelevel. Further, we are feeling that the cage width 61cm and the depth 64cm are practical, by which finding dead birds is easy.

HYTEM 3 zones Inlet control is working well keeping the room temperature higher and uniform in winter time, by which 1.7~1.8% Feed efficiency is attained (the minimum winter temperature at this area is -3~5 degrees Celsius).

10 rooms including pullet houses and manure composting, are being managed by 10 operators (total 13 including holidays shifts).

We are very much satisfied with Elevator performances almost without any cracked eggs. Elevators' timing adjustment is 2 times a year at most.

Besides the stable dryness of manure, Eco Breeze is, we think, contributing the better air quality to birds constantly supplying fresh air, and it is contributing as a countermeasure for summer heat. We run Eco Breeze 4 to 8 hours a day to avoid too dry manure for composting, except 24 hours running in rainy season.

Q : Hytem is appreciating your cooperation to upgrade HYTEM Manure conveyor in our field test. How is your evaluation to the upgraded HYTEM Manure conveyor?

A : By Chip scraper improved from the existing scraper, scraping performance has significantly improved, by which manure sticking to Return rollers has become much less. On top of this improvement, manure sticking has become further less by plastic return rollers replaced from conventional iron rollers.

By Chip scraper, cleaning work of the scraper is always required after removing manure, but it can be finished in 1~2 minutes. Compared with the cleaning time and labor required to the conventional Manure conveyor, the advantage of Chip scraper is great.



Chip scraper

Q : As countermeasure against summer heat, not by Cooling pad system, Fog system and Thrust fan are equipped. How are they working?

A : Cooling of Fog system is not as drastic as Cooling pad system. The good point of Fog system is uniform cooling from the front to the rear of the house by fog nozzles installed throughout the house. Together with one Thrust fan (fan diameter 30cm, 60m³ /min, 60W) placed at the middle aisle of each room , so far, we have not observed any dead birds due to the summer heat (The maximum summer temperature at this area is 38~39 degrees Celsius). I think, Fog+Thrust fan system is working well.



Fog system



Thrust fan

Q : At this farm, one set of HYTEM Plate Dryer is installed connected to 4 rooms(2 houses). How is it working?

A : Dry manure got by Plate Dryer(around 15% moisture) is used to adjust water content of manure taken out from all other houses, which is being composted.

It is quite practical approach for smooth manure handling especially in summer time, when manure water content increases by increased drinking water.

I recommend this approach to farms where the higher water content of manure is a problem.



HYTEM Plate Dryer

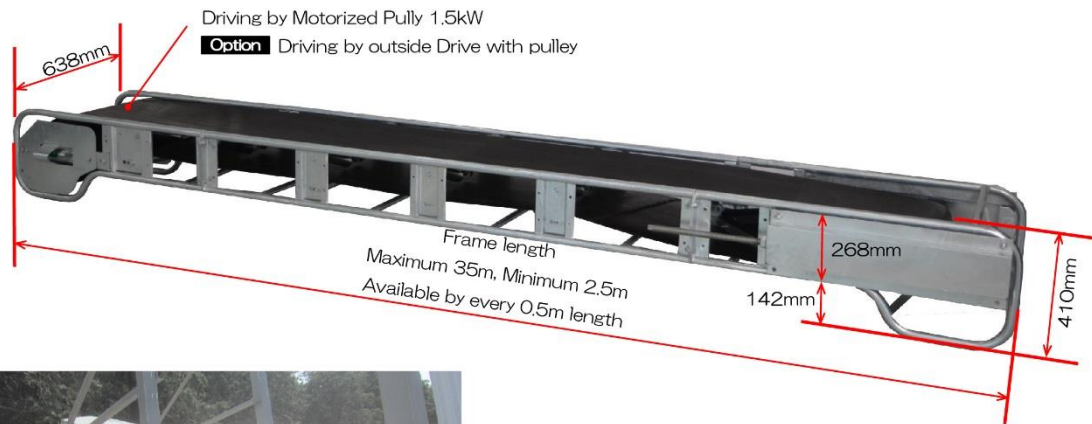
Q : Kindly comments any other points to HYTEM equipment.

A : We expect the future of HYTEM equipment, observing Hytem's continual endeavor toward the improvement as a manufacture.

HYTEM Manure Conveyor

HYTEM Manure Conveyor is a system developed exclusively to transport layer manure, repeating field tests at the egg farm

- 1** Minimizing troubles, weaving movement of the belt through less accumulating of manure and no rusting of rollers thanks to Nylon Carrier Rollers, Nylon Separated Return Rollers (shown in the back side of this catalogue)
- 2** Scraping manure cleanly by Chip Scraper with spring movement
- 3** Preventing scattering of manure at the transferring point by Anti-manure scattering kit
- 4** Hot dip galvanized frame ensures the durability of the system



Option Weather Cover

The supports are required to be prepared under Building works

Nylon Carrier Roller

Supporting smooth belt running
Shaft is Stainless 304



Nylon Carrier Roller



Standard Steel Carrier Roller

Nylon Separated Return Roller

Minimizing manure accumulation
through the minimized contact
surface of Rollers to the belt



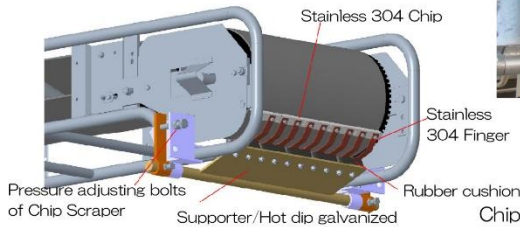
Nylon Separated
Return Roller



Standard Steel Return Roller

Chip Scraper

Chip Scraper with spring movement
by Stainless finger and Rubber
cushion scrapes manure cleanly



Chip Scraper

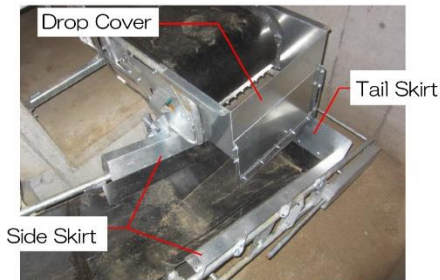


Standard Single Scraper

Chip Scraper's pressure can be adjusted by Pressure adjusting bolts provided at both sides of the frame

Anti-manure scattering kit at the transferring point

The kit is consisted of Drop Cover, Scraper Cover, Tail Skirt, Side Skirt, Side Cover



Preventing scraped manure going
under the conveyor belt



Preventing scattering of manure
at the edge part of the belt

