



AVIAN MECHANICS

GENÇ GÖZDE



ENRICHED / ENRICHABLE CAGE SYSTEMS



Avian Mechanics Enrichable Cages

Our AV1250 / AV1500 enrichable egg cages are a cage system designed for high breeding performance that can be easily converted to the European enriched cage system.

AV1250/AV1500 model cages, the eyes are divided by the intermediate partition plate fitted between the upper partition plate (1.00mm) and the lower partition plate (1.50mm), which are mounted on the cage poles.

AV1250 model cage, the battery also has a depth of 625mm, a front size of 600mm and a height of 680mm. 9 (nine) chickens can be bred in one eye.

AV1500 model cage, the depth of the battery is 750mm, the front size is 600mm and the height is 680mm. 11 (eleven) chickens can be bred in one eye.

Transformation of the Units into Enriched Cage System

Enriched cage conversion process is ; the intermediate partitioning wires are removed and the 8 eyes in the 2.40 m long unit are merged together. In our AV1250 model cage, an eye of $125 \times 240 = 30000 \text{ cm}^2$ is created, can take a capacity of 40 chickens. $40 \times 750 = 30000 \text{ cm}^2$. In our AV1500 model cage, an eye of $150 \times 240 = 36000 \text{ cm}^2$ is created and can take 48 chickens. The enriched cage system is consisting of the nesting-box area, tuning area, scratching area and nail rasping area. Enriched cage system conversion process is designed to be done with minimum labor cost.

All metal and wire parts of the cage are galvanized. The metal-sheets used in the cages up to 1.00 mm thickness are 215 gr / m² galvanized, 1.50 mm and thicker are 275 gr / m² galvanized. This gives maximum protection against corrosion. Higher cage-based requirements result in higher egg production performance and lower cost of production. The special base steel is placed in the tensioner wire with the suspension system. Thanks to this system, the amount of cracked and dirty eggs has been reduced to a minimum level. Base bolts with steel hooks are mounted to the intermediate partition bottom sheet, intermediate compartment bottom plates with rivets intermediate compartment to side plates intermediate compartment side plates are special folded over the feeders with a curved profile. This design has created a solid, long life construction.

NESTING-BOX

In each of enriched unit there are 2 nesting-box sized 60 x 34 cm. In these parts the hens are expected to lay eggs in an identical environment to their natural habitats.



PERCHING-SCRATCHING-CLAW ABRASIVE and WATER LINE



There is a mat inside scratching area.(57x47cm)

There are 8 steel nipples in each unit in the middle of the unit and water line at full length. In an enriched system the droppers that are put instead of this v canal allows the manure to be dry.

With a pipe 2,4 m in length pass through perching area unit and 2 pipes 1,2 in length at right and left sections, with 8 total pipes, a perching area of 7,2 m in length with gives the desired perching area (Article 4 : Each bird need a space of 0,15 mt)

8 claw abrasives are located above plastron sheets.



Egg efficiency of the hens is taken into account in the design of the whole system.

MANURE REMOVAL SYSTEM

Manure is drained to outside through PP manure bands under blocks, the rims that turns these bands and trouble-free mechanic system. This system is designed for the purpose of the most suitable electrical consumption and low maintenance costs.



COLLECTING EGGS and CONVEYOR SYSTEMS

There are 2 kinds of egg collection cage systems which are **Lift-Type** and **Ascalator Elevator systems**.

Lift-Type Egg Collecting System
AV1250/AV1500 cages, the eggs that come easily onto the cloth band due to the special inclination of the cage sub-tails are collected in order by the elevator type egg collection head and are taken to the egg storage on the egg conveyor and the egg storage by the egg conveyor. Lift type egg collection systems are designed by calculating the minimum cracked and broken egg ratio. Egg conveyors are minimized in cracking and cracking ratio and eggs are carried out from the poultry to egg storage. In lift type systems the conveyor width is 530 mm.

Escalator-Elevated Egg Collecting System
The eggs are collected from all floors are transported to mini conveyors with cloth belt and via the mini conveyor the eggs also goes to escalator-elevator type egg heads and transferred to egg conveyor. The conveyor width is 650 mm in the escalator-elevator type systems. The escalator-elevator type egg collecting systems are designed by targeting large-sized farms to collect eggs during working hours.



FEEDING SYSTEM

Chain and cart feeding system can be made. Chain feeding provides fast and equal distribution it also reduces feed loss. Feed corners provide seamless continuous feed does not require any maintenance. The working periods of the chain feeding system can be adjusted by a time clock.

The cart feeding system allows for a healthy feeding. Excellent production results, low maintenance, flexibility and safety are the advantages of the feeding system. Cart feeding system has a feed a device which can be easily adjusted, the feed size of between 0,5-3cm, provides an opportunity to be easily



Feeding systems can be chosen between vehicle and chain feeding.

adjusted. The cart feed system prevents the spread of feed, ensures equal feed distribution.

Regulation Regarding the Welfare of Farm Animals

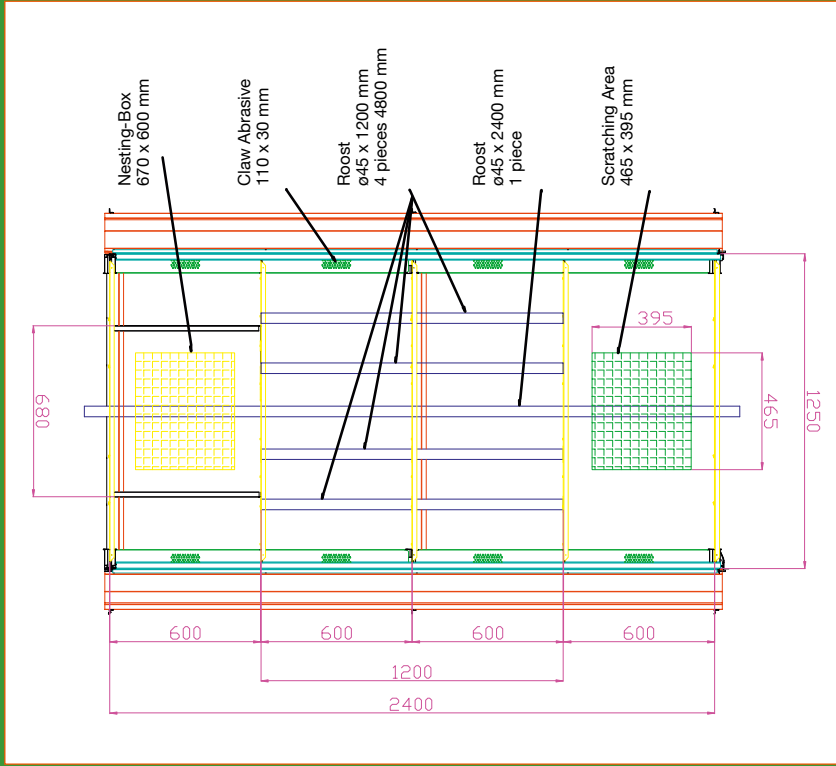
Third Chapter Subject 25 - Terms to Apply for Enriched Cage Systems



- A) Following possibilities are provided for layer hens.
- 1) For at least 750 cm² cage area provided for each hen, there should be 600 cm² available area.
 - 2) One nesting-box,
 - 3) Laying area where pecking and scratching is possible
 - 4) For each hen at least 15 cm long appropriate roosts are provided.
- B) A feeder is provided that they can use without a restriction. The length of feeder is the number of hens x 12 cm.
- C) In each cage there is a suitable drinking water system depending on the group size. While using dripping tool or water pans, there should be at least two dripping tools or two water pans that each hen can reach.
- D) To ease the fill up and evacuation of the hens to the cages there are at least 90 cm in length passageways between the cage floors and there is a gap at least 35 cm in length between the cage base and building floor.
- E) Appropriate claw abrasive tools are placed in cages.

GENÇ GÖZDE Enriched Hen System

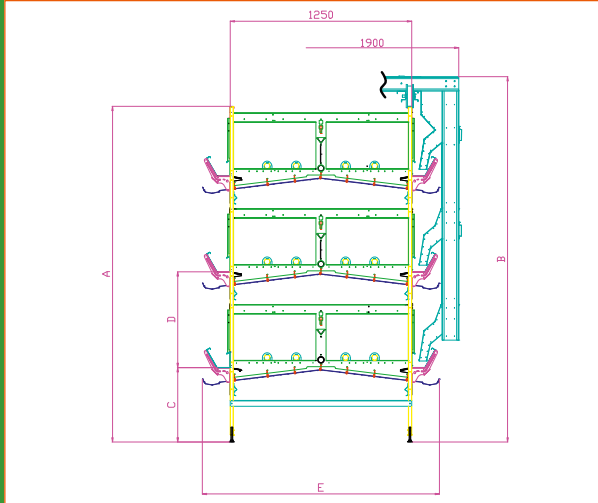




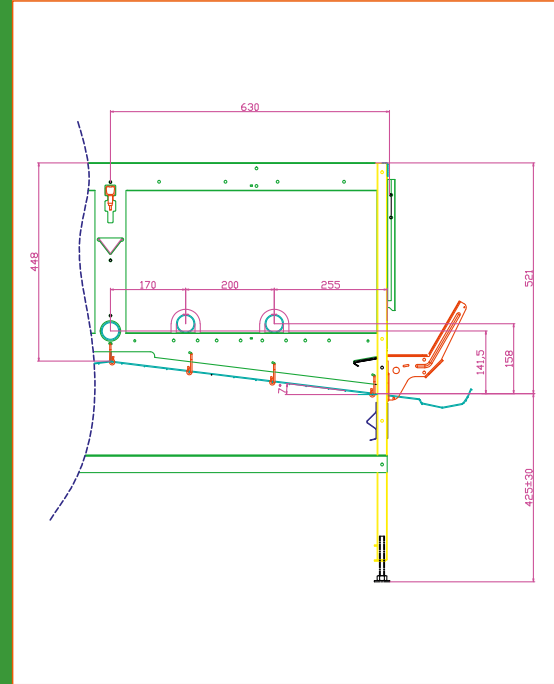
Enriched Battery Section

125 x 240 cm enriched section equals to 30,000 cm² area. For this section, when we count as 750 cm² area for each hen and 40 hens can be placed.

In each section there are 60 x 34 cm² nesting-box, 39,5 x 46,5 cm one scratching mat and totally 7,2 m in length perching area and 8 claw abrasive .



Number of Floors in the Cage	A	B	C	D	E
3 Floors	2320	2530			
4 Floors	2980	3190			
5 Floors	3640	3850	513	660	1634
6 Floors	4300	4510			
7 Floors	4960	5170			



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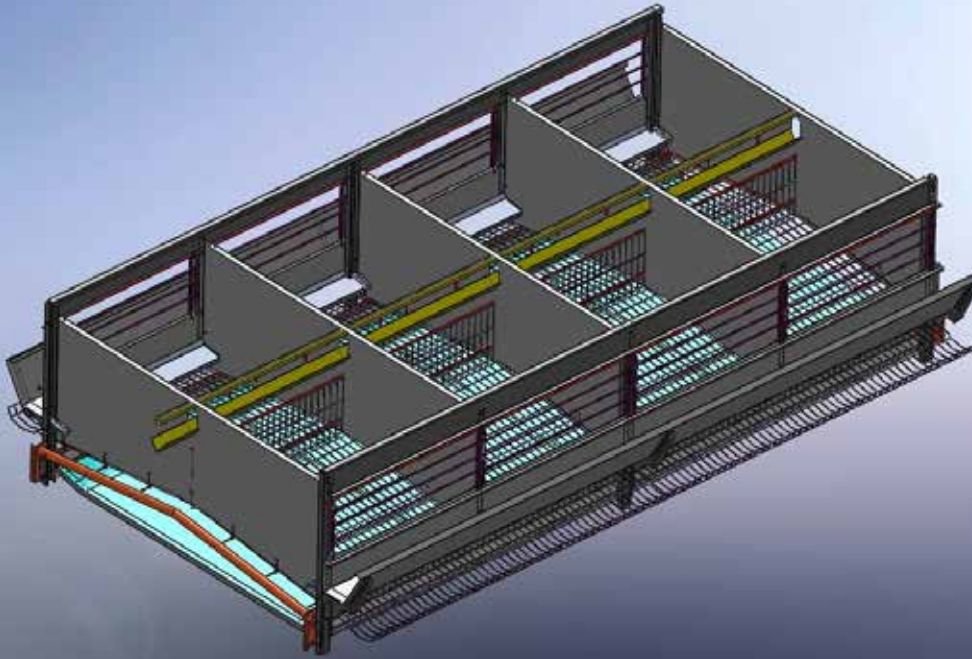


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SuperEGG / **EGG CAGES**

BATTERY



SuperEGG layer cage is a cage system produced with the aim of a long working life and save on place. All metal parts of the cage are galvanized and all wire parts are GALFAN coated. By this way, maximum protection against corrosion is provided. By concluding the high needs of the cage in accordance with the technical standards, high laying performance and low cost production are achieved.

Thanks to its special base wire hanging system, base wire is installed to guy wire. With this

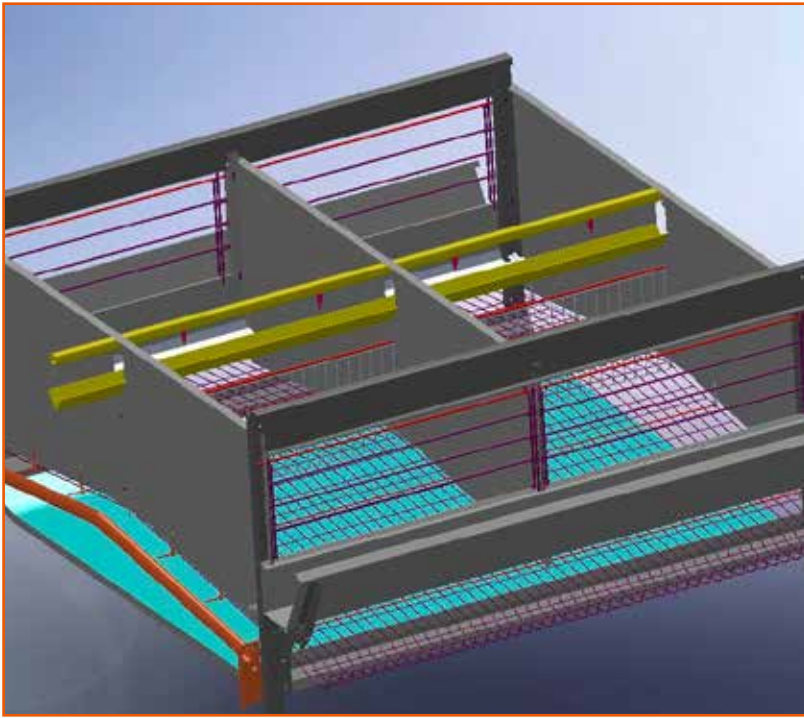
system the extent of cracked and dirty eggs is minimized. In the battery each cage has 600 mm, depth 600 mm façade and 590 mm height. Base wires are mounted to spacer plate with steel hooks and spacer plates are mounted to feeders thanks to special curve profile. This design provides the whole cage with a strong.

FEEDER



Feeding system with carrier provides a healthy feeding. Perfect production results, less maintenance, flexibility and safety are the advantages of feeding system with carrier. Feed apparatus installed in the feeding system with carrier provides the possibility for an easy adjusting of feed level (0.5-3cm). Deep feeder prevents the feed to be poured. Feeding system with carrier prevents the feed to be separated and provides equal feed distribution. Feeders are separate for each levels and they are mounted each other with a column. In each feeder there are feed direction channels. By these channels, feeds coming from the spiral are equally distributed to each levels. Operation time of the feed carrier can be adjusted with a time clock.





WATERING SYSTEM

In **SuperEGG** layer cage there is 1 water line and a V dripper on every layer. There are 2 steel nipples attached for each cell. Steel nipples are protected against dripping and leakage.



MANURE DISPATCH SYSTEM

Manure bands with tightly connected polypropylene collect the manure under all cells at every level. Band is tore and heat proof itself. These bands are operated with steel drums. This durable mechanism provides manure dispatch for longer periods and distances.

When the bands are operated, the manure drops on the V type manure carrying band through the scraper. Pressure rolls prevent the stretching only when the bands are operated. With solid watering system and cage construction drier manure is obtained. Vertical and horizontal manure conveyors placed at the back of the cage provide the manure to be dispatched out of the cage.



EGG COLLECTING AND EGG CONVEYOR



By egg collecting system with an elevator eggs are collected safely and minimizing the broken and cracked egg rate, then eggs are collected in egg cell. Elevator system provides the possibility to collect only the eggs on the chosen level. Eggs brought to the conveyor with longitudinal belt are dispatched to egg cell through a line.

Longitudinal eggs belts are made of polypropylene material. Cleaning of the belts is made automatically with the brush group behind the system.

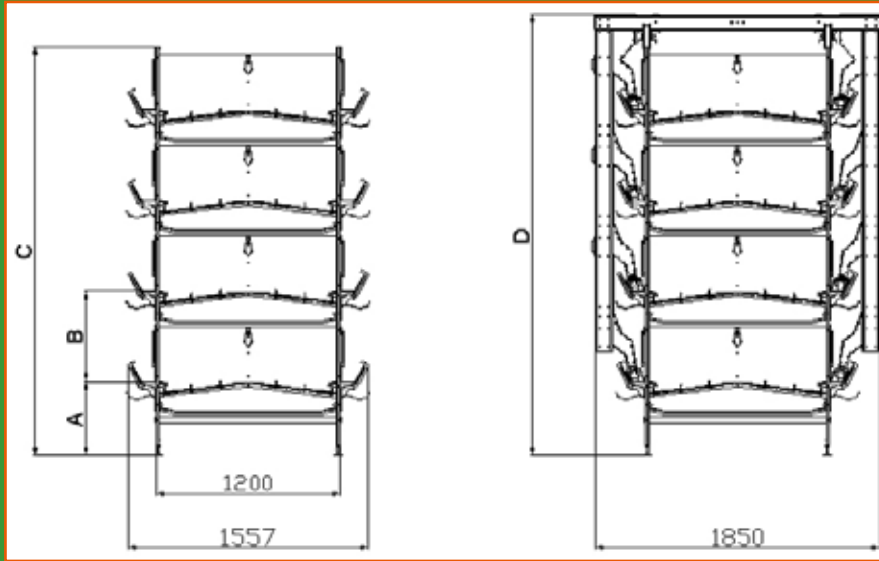


SuperEGG

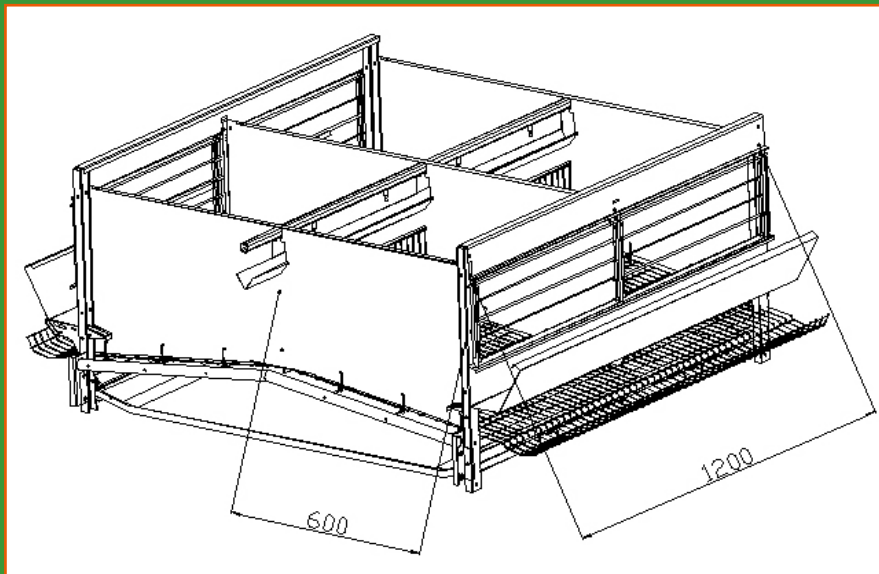
Egg conveyors are plastic roller type egg conveyors. Conveyors can be produced in the widths of 50, 60, 70 cm. Thanks to the design feature of plastic roller, eggs can be conveyed without any damage even to the longest distances.



TECHNICAL DIMENSIONS



CAGE TIER NUMBER	3 TIERS	4 TIERS	5 TIERS	6 TIERS	7 TIERS
A	420				
B	590				
C	2080	2670	3260	3850	4440
D	2290	2880	3470	4060	4650



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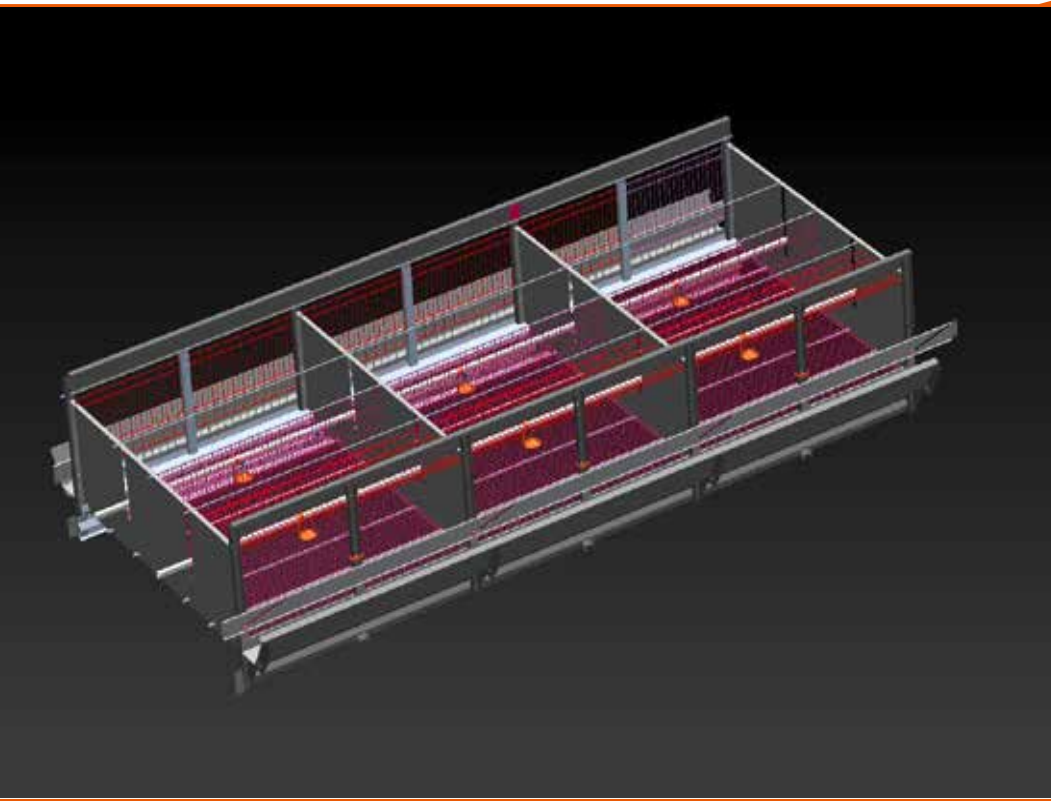


AVIAN MECHANICS



SuperEGG / **PULLET REARING CAGES**

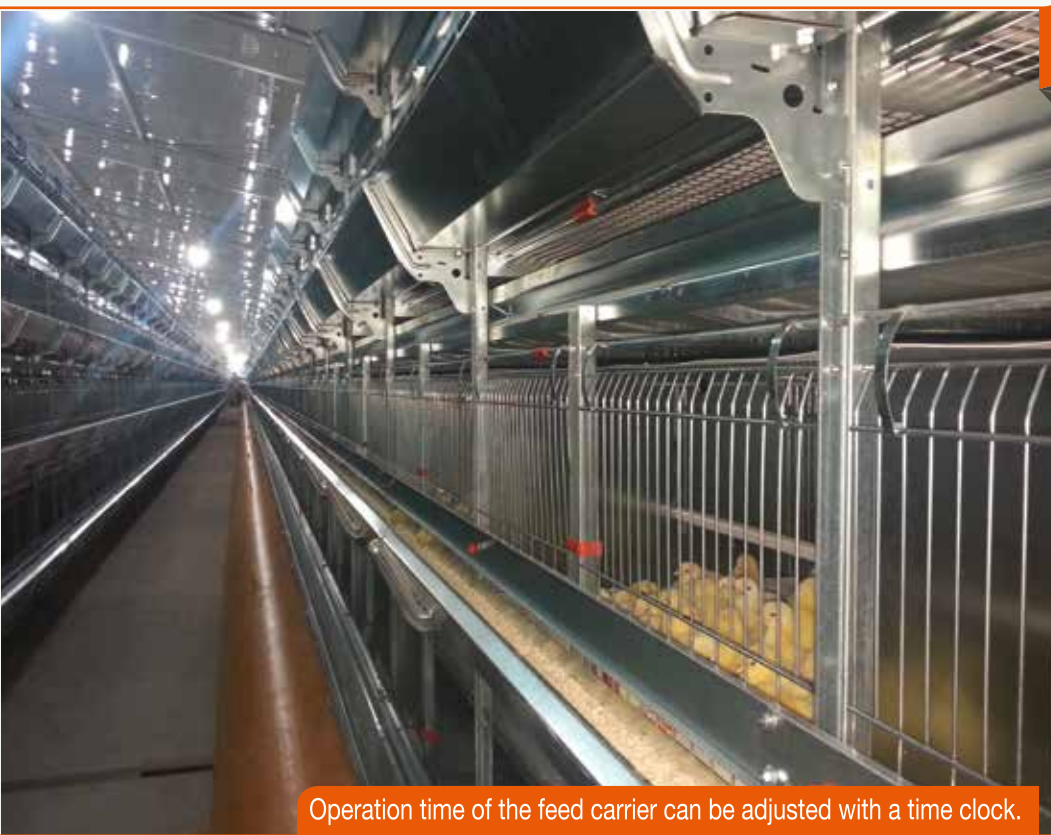
BATTERY



SuperEGG brood breeding cage system has a long working life and space saving design . AV 1200 and AV 1000 models are available in wire and sheet metal materials . The depth of a single chamber is 630 mm . The front size of AV1000 is 1000 mm . AV1200 has a front size of 1200 mm . All of the metal and wire parts has a galvanized covering against corrosion with maximum protection . Low-cost cultivation is achieved by the high requirements of the cage in accordance with the technique. The base wire is placed on 8 mm galvanized coated shaft bars .

The base of the cage is steel mattress in the scale of 17x17 . Even a one day-old chick can walk around the base floor without an extra peace . There are 2 fixed covers in each eye and one inwardly opening cover . The inward opening cover which is in the middle of each eye makes it easier to reach the chicks spreading to any area of the eye . Covers are easily fixed to self-form pole and can not be opened without human factor .

FEEDING

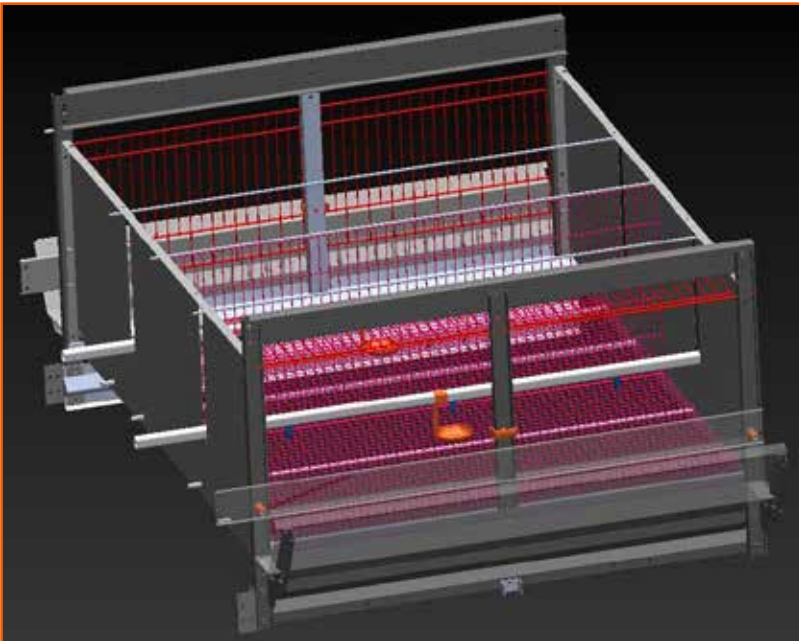


Operation time of the feed carrier can be adjusted with a time clock.

Feeding can be made by chained mechanism and by cart . We prefer cart feeding system for the best result . The advantages are excellent production results , low maintenance , flexibility and safety . It has a feeding device which you can easily adjust the feeding grade. (0,5-3 cm) . Deep feeding channel prevents the feed loss. The cart mechanism feeding system prevents the spread of the feed and provides equal feed distribution. Feeders are for each floor and are mounted together via a column. Each feed bucket has a direction channel . Thanks to these channels the feed from the helix is distributed in equal quantities.

The working time of the feed car can be adjusted a time clock. **SuperEGG** chick breeding cage is designed to prevent the fall of feed in to the eyes and mixing in to the fertilizer . Chicks can be feed from the holes measuring 30x40 mm on the feeder from the first day they were born. The feed adjustment plate located in front of these holes is easily adjusted by a handle along the battery and it allows to feed the chicks from the first until the last day.

WATERING SYSTEM



Water tanks placed at the front group of the battery are produced with double outlets for SuperEGG pullet rearing cages. Water entry and exit holes are wide, thus no blockage occurs.

In SuperEGG pullet rearing cage, there are 2 different water lines on every level. There are 3 steel nipples in AV1000 model and 4 steel nipples in AV1200 model attached for every cell. Steel nipples are protected against dripping and leakage. The middle nipple is 360° moveable exercise nipple.



Water lines can be lifted up and down with 2 cranes on the left and right of the battery's front group. Thus, starting from the first day, pullets reach water easily.

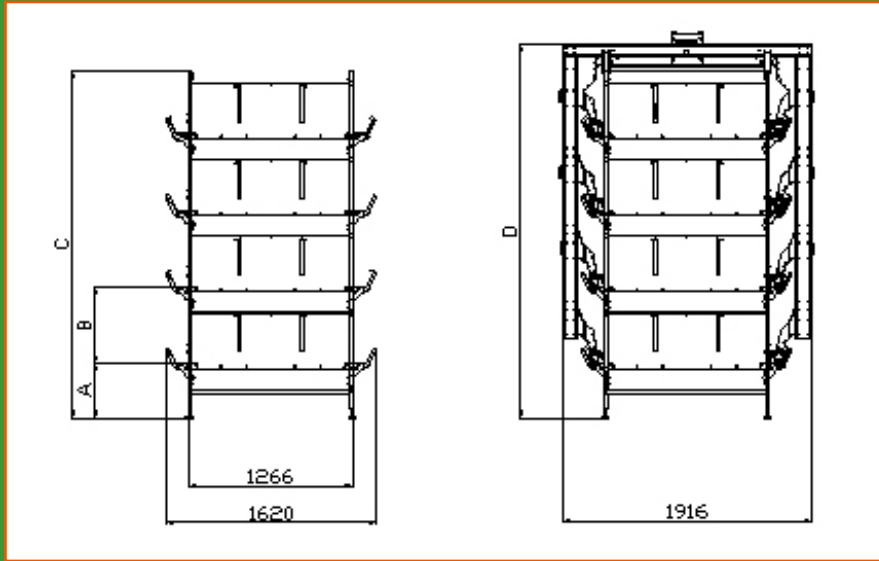


MANURE DISPATCH SYSTEM

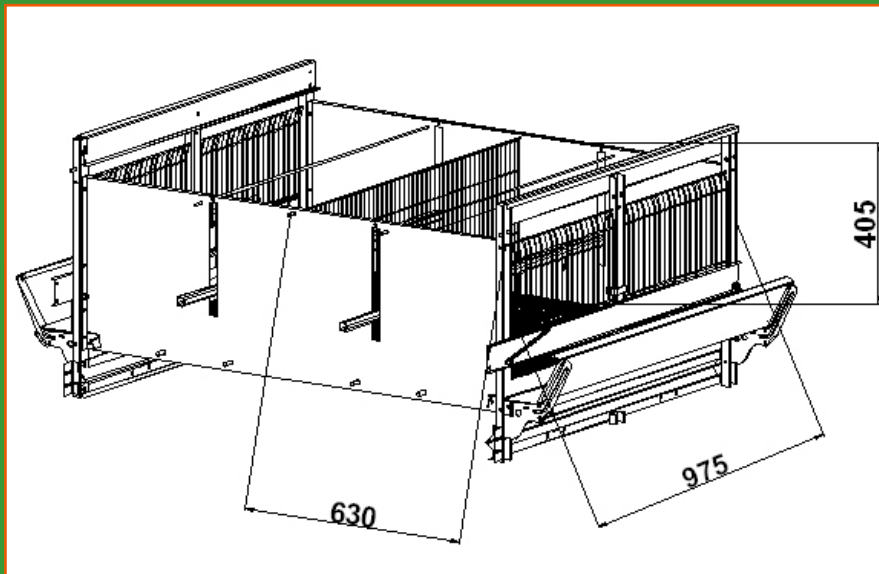
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