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**LAYER
MAGNUM**

FACCO
POULTRY EQUIPMENT

LAYER MAGNUM



Research and development of our products, combined with the global experience gained through the collaboration with our clients, led to the creation of an innovative battery that stands out, in particular, for its various technical solutions developed to meet the needs of modern farming in the most effective way possible.

The "MAGNUM" battery results from the regulations which have been imposed to protect laying hens' welfare as well as from our determination to deliver results which meet the most demanding needs in terms of feed conversion efficiency, quality of eggs produced and ease of the management of the system.

The hens are housed in mini-colonies made up of 54 animals, allowing a real group to be created, establishing innate behaviours and enabling the traits of each genotype to be fully developed. Every accessory has been meticulously thought out with the aim to optimise each phase of the production cycle, reduce labour and maintain a clean and hygienic environment. This ensures high-quality products and sustains animal health.

The "MAGNUM" battery also allows you to make the most effective use of the volume available in each shed. This is made possible thanks to a structure that introduces both the trough and the egg collection belt within the cage.



Standards laid down under Directive "1999/74/CE"

- All systems must be equipped in such a way that all laying hens have:
 - at least 750 cm² of cage area per hen, 600 cm² of which shall be usable; the height of the cage other than that above the usable area shall be at least 20 cm at every point and no cage shall have a total area that is less than 2000 cm²;
 - a nest;
 - litter such that pecking and scratching are possible;
 - appropriate perches allowing at least 15 cm per hen;
- a feed trough which may be used without restriction must be provided. Its length must be at least 12 cm multiplied by the number of hens in the cage;
- each cage must have a drinking system appropriate to the size of the group; where nipple drinkers are provided, at least two nipple drinkers or two cups must be within the reach of each hen;
- to facilitate inspection, installation and depopulation of hens there must be a minimum aisle width of 90 cm between tiers of cages and a space of at least 35 cm must be allowed between the floor of the building and the bottom tier of cages;
- cages must be fitted with suitable claw-shortening devices.

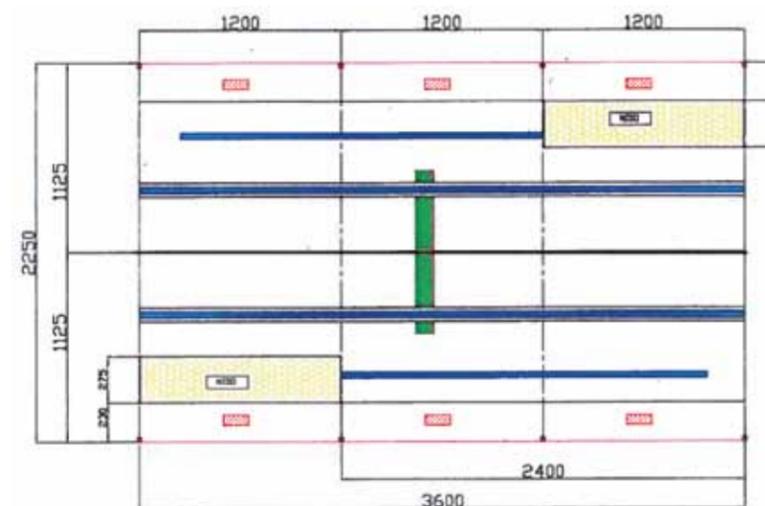


TECHNICAL DATA SHEET LAYER MAGNUM

TECHNICAL FEATURES

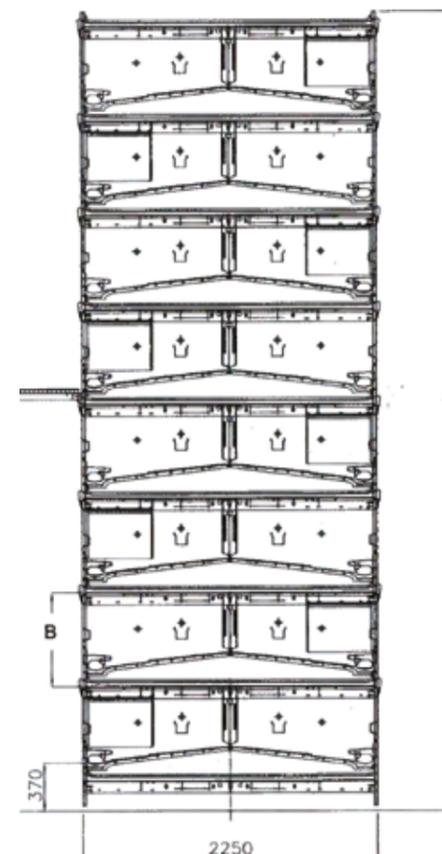
| BIRDS CAGE | BIRDS UNIT/TIER | CM ² USABLE AREA/BIRD | CM PERCH BIRD | CM FEED TROUGH |
|------------|-----------------|----------------------------------|---------------|----------------|
| 54 | 108 | 750 | 15 | 12 |

The module of "MAGNUM" battery cage is 3,6 m long and 2,250 m deep;
Each section is furnished with nest, perch and litter bath.

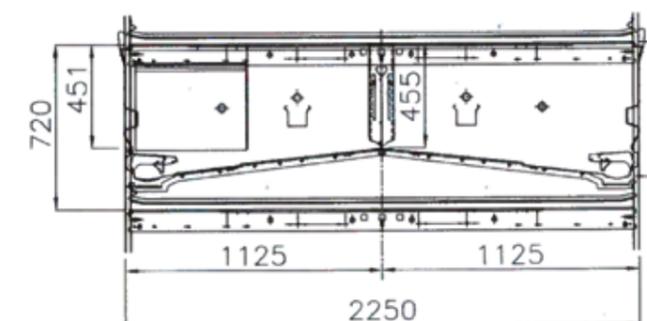


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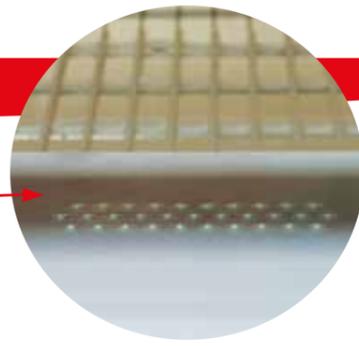
- 1. NEST
- 2. LITTER
- 3. PERCHES
- 4. CLAW SHORTENING DEVICE
- 5. PARTITION
- 6. FEEDING TROUGH



| TIERS | "A" | "B" |
|-----------|------|-----|
| 3 TIERS | 2505 | 720 |
| 4 TIERS | 3225 | 720 |
| 5 TIERS | 3945 | 720 |
| 6 TIERS | 4665 | 720 |
| 4+4 TIERS | 6450 | 720 |
| 5+4 TIERS | 7170 | 720 |
| 5+5 TIERS | 7890 | 720 |



CLAW SHORTENING



The claw shortening system is achieved by knurling the protective sheet of the egg conveyor belt, making it easily accessible to the animals.

This type of finish is simple, clean and effective.

FLOOR SUPPORT



The floor is supported by a metal frame which, thanks to the passivation treatment, is highly resistant to corrosive agents. This frame provides strength and stability to the whole structure. By supporting the wire mesh from below, it avoids obstacles being created inside the cage, which could hinder the descent of the eggs, as well as the movement of animals.

The supporting wires of the bottom of the cage rest on the frame and are placed at a distance which guarantees the optimum inclination and "soft-balanced" effect, ensuring the correct degree of flexibility. The floor surface is, therefore, smooth and free of rough edges, keeping it always very clean.

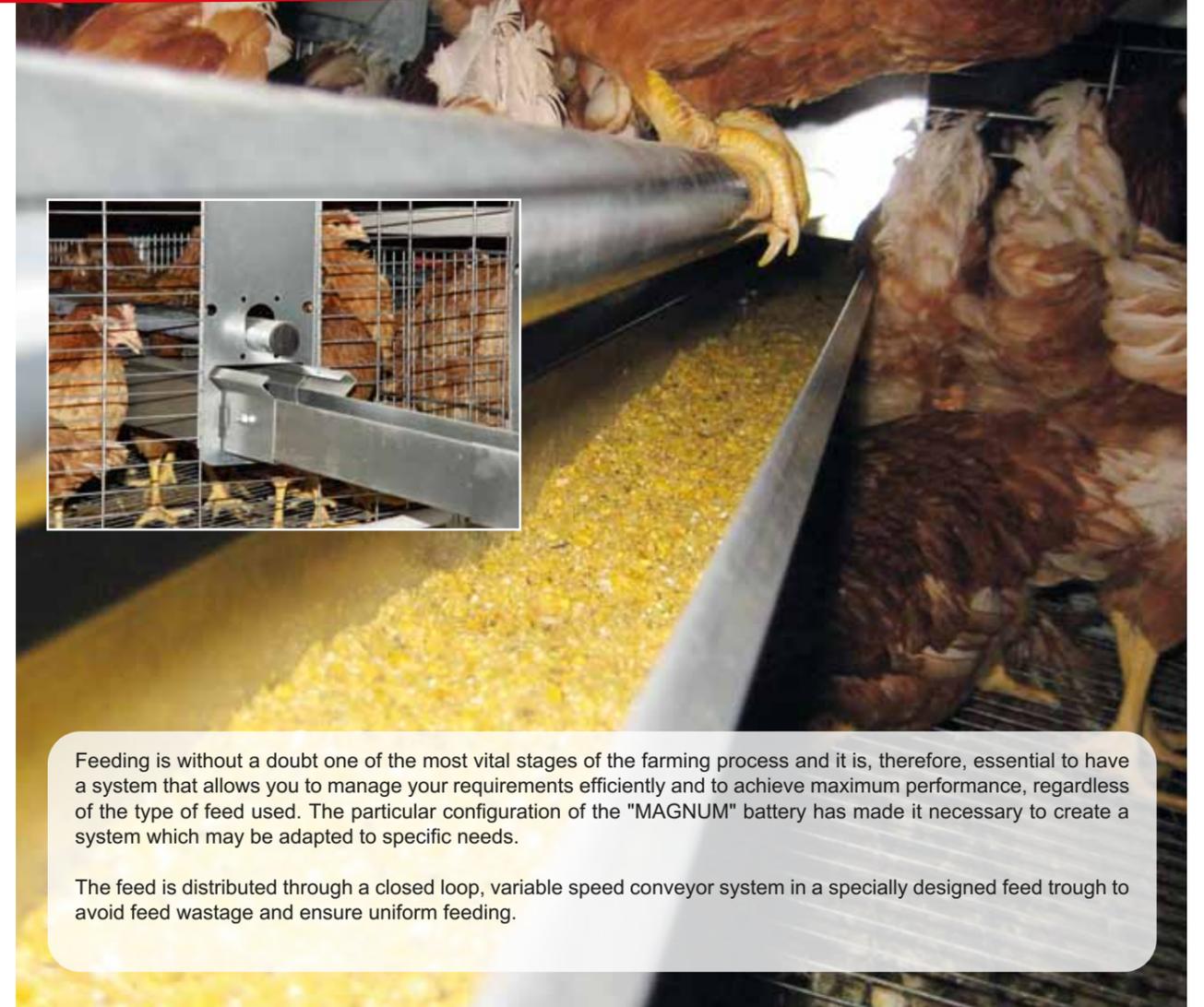
DRYING



The **MAGNUM** battery may also be equipped with the manure drying tube directly on the conveyor belt.



FEEDING SYSTEM



Feeding is without a doubt one of the most vital stages of the farming process and it is, therefore, essential to have a system that allows you to manage your requirements efficiently and to achieve maximum performance, regardless of the type of feed used. The particular configuration of the "MAGNUM" battery has made it necessary to create a system which may be adapted to specific needs.

The feed is distributed through a closed loop, variable speed conveyor system in a specially designed feed trough to avoid feed wastage and ensure uniform feeding.

DRINKING SYSTEM

There are 8 water distribution points for each 360 cm unit where the 54 animals are housed. This ensures that the standards requiring a number of water distribution points, which is appropriate for the size of the colony, are fully met.



DOOR



The door is one of the most demanding components during the hens' housing and depopulation to the system as well as in its day-to-day management. This is why it has been designed to be both durable and ergonomic.

Each door has a front of 60 cm and is opened by pushing towards the inside of the cage. It is possible to completely or partially open an entire section of 360 cm should it be necessary to operate only on one side of the cage or on the whole front.

The door dimensions have been selected so as to allow easy access to the unit by the operator for carrying out inspections, maintenance, installation and depopulation.



SCRATCHING AREA



The scratching mat is made of plastic which is hard and smooth, hooked directly onto the bottom of the cage. This ensures that it always remains clean and does not cause manure to accumulate.

Thanks to the dedicated hooks, installation and removal for cleaning requires only a few moments.

PERCHES

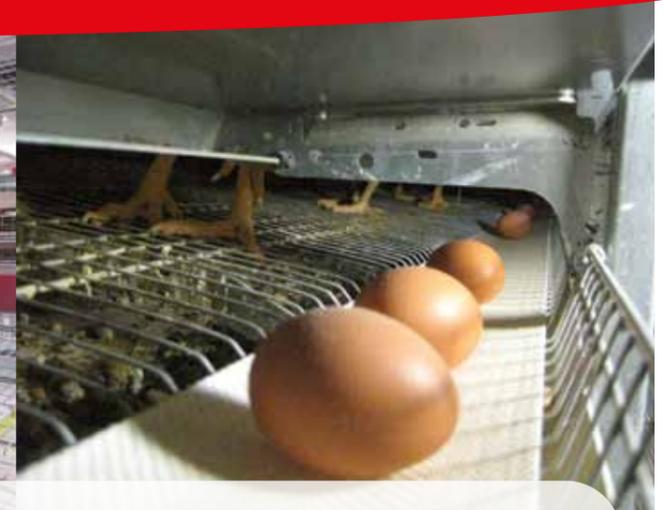


The perches are placed lengthwise with respect to the battery and parallel to each other within the unit, so as not to create obstacles and overlapping, which make it difficult for the animals to move around the cage and encourage the formation of dirty areas. The height has been thought out to allow animals to access the entire surface of the cage. Walking on the cage floor surface ensures that it is clean.

The perches are made of specially treated metal designed to be highly resistant, while the round section ensures that it is clean.

The excellent results achieved with European cages up until now have allowed us to build upon our experience and make significantly beneficial changes.

NEST



Under the European Directive a nesting area is required. This is placed on the outer side of the cage so as to minimize the distance that the eggs must travel to reach the conveyor belt, thereby significantly reducing the risk of rupture or of remaining inside the cage. The nest has a front of 120 cm and is placed alternately in relation to the cage opposite in order to avoid dark areas being created within the cage.

For the purpose of creating a warm contact surface inside the nest, the standards require the wire mesh to be covered with a special mat designed to be placed perfectly alongside it, keeping it constantly clean, and to avoid height differences that may slow down the descent of the eggs.

The mat has hooks that allow it to be attached to the wire mesh without having to use clips. This ensures a rapid removal and installation for cleaning.



Alternatively, it is also possible to use a specially designed type of varnish for the wire mesh.

