



## LAYERS CAGE

Designed under the strictest criteria of quality with a unique purpose: to provide to the birds the best environment in order to obtain the best production results.

The Zucami bell-battery is designed for a quick assembly, without screws, clamps or hooks to set it up.

Mesh floor of galvanized wire after welding, using tighter mesh spacing where the birds stand, this mesh floor design provide lower mortality rate. Mesh floor flexible, uniform and solid for a gentle and easy egg roll-out.

Galvanized steel pipes each 61 cm. (24 in.) inside every partition endowing superior strength to the cage construction.



Green colour partitions, providing more peacefulness to the bird's behaviour and decreasing their aggressiveness and stress. Partitions with holes improving the inside cage ventilation.

Easy access door, provided with a simple and secure closing (unique design), its opening leaves free the whole front surface, facilitating the bird's handling without hurting or injuring them.





## FEED DISTRIBUTION



Feed distribution by feed-trolleys with enough autonomy to supply up to 180 meters (590 feet) long, assuring that the birds receive their feed ration in a balanced and equal way.



The exclusive design of the feed distributor allows an exquisite feed distribution, mixing the feed stored in the feed-trolleys with the one that is in the feed trough.



Each feed-trolley include two centrifugal fans that project an air jet to the egg-gather belts eliminating the dirty particles and improving the clean eggs rate.



Feed trough features feed shield and lip to prevent waste.

Feed distribution can be done also by feed chain.





## EGG COLLECTION SYSTEM



• Lifter system for the egg-collection.

Each cage row includes, in its front part, an automatic system to collect the eggs laid on the egg-gather belts. The collected eggs are transfer to a cross conveyor (Zucami's rod-link conveyor) for their follow centralization and classification. With this system we reduce to the minimum the number of transfers with a lower rate of disqualified eggs by breaks, cracks or dirt. On finishing the egg-collection, the lifter stops at the level, which allows free access to the different aisles of the barn.



• Egg saver system (E.S.S.)



• Multi-tier system for the egg-collection (M.T.S.)



• Elevator system for egg collection



## MANURE PROCESSING & DRYING



Manure removal with polypropylene belts travelling up to 180 meters (590 feet) long with a frequency between 3 to 7 days, depending on the barn length. The manure humidity rate is between 60 to 65%.



Outside manure removal conveyor.



Manure processing system



Manure drying system by supplemental air tube. The manure dried rate with this optional system is between 50 to 60%.



## BROOD GROWERS CAGE



One of the most important factors for the success of the poultry production is the optimum breeding of the birds. Knowledge of the importance of this period and the care required in it, Zucami designed the brood grow belt battery with the purpose of obtaining the best results of brood uniformity, offering the best environment to the birds and facilitating their handling.

The Zucami's brood grow belt battery is designed and manufactured taking as reference many of the elements that compose the Zucami's layers belt battery. Partitions between cages, feed-trolleys, feed distributors, manure removal units and the design on the whole, are similar to those of the Zucami's layers belt battery.



The brood uniformity and lower mortality rate are two of the aspects that are accentuated in the Zucami's brood grow belt battery. Because of its design, the Zucami's brood grow belt battery offers:

- *More number of nipple drinkers per bird.*
- *More feed trough surface per bird.*
- *Less birds density per cage.*
- *More cage floor area per bird.*



Feeding and drinking systems are equally adjustable, depending on the birds grow, from an easy mechanism located in the front part of each cage row.



ZUCAMI has a wide range of services at the disposal of its clients:

## DISTINGUISHED SERVICES



### PRODUCTION MANAGEMENT

- Excellent integral controller
- Total optimization of the resources
- Automatic switches extras for food
- Recording of the consumptions

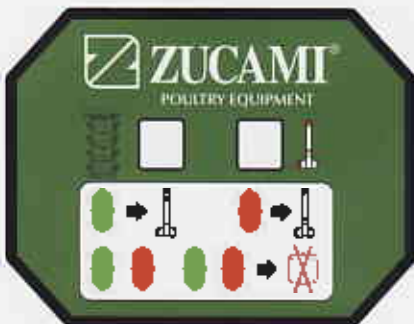


- Extra module of connection
- Communication by means of interface with PC through a program of management Rainbow
- Summary of the activated systems



### EGG COUNTER

- Accuracy of 99,5 %
- Good tolerance to the sunlight
- Protected against electric discharges
- Easy system of connection
- High acceptance of the egg's size
- Wide experience
- Daily control
- Control of the flow of eggs



### CONTROL OF THE WATER LEVEL

- Alarm of water level
- Control of up to 8 rows with 8 levels
- Centralization of the information
- Facility of handling and configuration



# CAGE SPECIFICATIONS

## Z 610 / Z 610 (manure drying)

SPECIFICATIONS	mm	inches
Width	<b>610</b>	24.01
Front side height	<b>450</b>	17.71
Backside height	<b>375</b>	14.76
Depth	<b>500</b>	19.68
Cage floor area	<b>3.050 *</b>	472.75*
Deck height	<b>575</b>	22.61
Slope	<b>14% u 8°</b>	

## Z 610 S 145

SPECIFICATIONS	mm	inches
Width	<b>610</b>	24.01
Front side height	<b>455</b>	17.91
Backside height	<b>375</b>	14.76
Depth	<b>550</b>	21.65
Cage floor area	<b>3.355 *</b>	520.02*
Deck height	<b>582</b>	22.91
Slope	<b>14% u 8°</b>	

## Z M.E.C. / Z M.E.C. (manure drying)

SPECIFICATIONS	mm	inches
Width	<b>610</b>	24.01
Front side height	<b>526</b>	20.71
Backside height	<b>450</b>	17.72
Depth	<b>630</b>	24.80
Cage floor area	<b>3.843 *</b>	595.66*
Deck height	<b>652</b>	25.66
Slope	<b>12% u 6,84°</b>	

## Z WELFARE / Z WELFARE (manure drying)

SPECIFICATIONS	mm	inches
Width	<b>610</b>	24.01
Front side height	<b>526</b>	20.71
Backside height	<b>438</b>	17.24
Depth	<b>630</b>	24.80
Cage floor area	<b>3.843 *</b>	595.66*
Deck height	<b>652</b>	25.66
Slope	<b>14% u 8°</b>	

## Z C-R 500

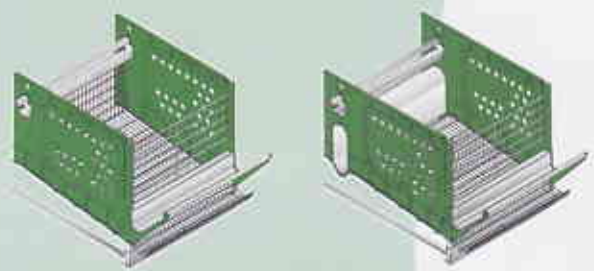
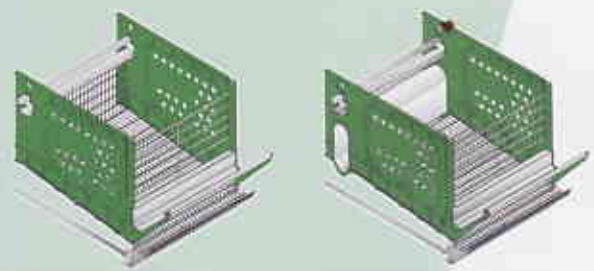
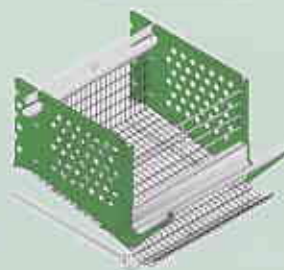
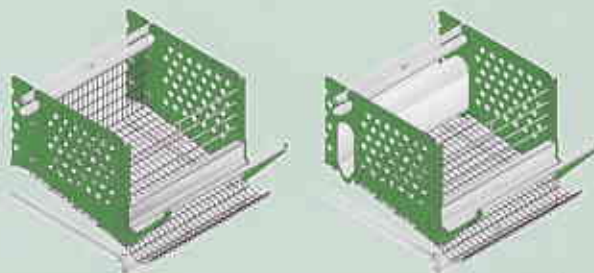
SPECIFICATIONS	mm	inches
Width	<b>610</b>	24.01
Front side height	<b>370</b>	14.56
Backside height	<b>370</b>	14.56
Depth	<b>500</b>	19.68
Cage floor area	<b>3.050 *</b>	472.75*
Deck height	<b>510</b>	20.07

## Z C-R 630

SPECIFICATIONS	mm	inches
Width	<b>610</b>	24.01
Front side height	<b>420</b>	16.53
Backside height	<b>420</b>	16.53
Depth	<b>630</b>	24.80
Cage floor area	<b>3.843 *</b>	595.66*
Deck height	<b>560</b>	22.04

• = Square centimetres<sup>2</sup>

\* = Square inches<sup>2</sup>





N° TIERS	mm <b>A</b> inches	mm <b>B</b> inches	mm <b>C</b> inches
<b>Z 610 / Z 610 (manure drying)</b>			
3	<b>Z 610</b> <b>1.335</b> 52.55	<b>1.850</b> 72.83	<b>1.895</b> 74.60
4			<b>2.470</b> 97.24
5	manure drying <b>1.420</b> 55.90	<b>2.000</b> 78.74	<b>3.045</b> 119.88
6			<b>3.620</b> 142.51
7			<b>4.195</b> 165.15
8			<b>4.770</b> 187.79

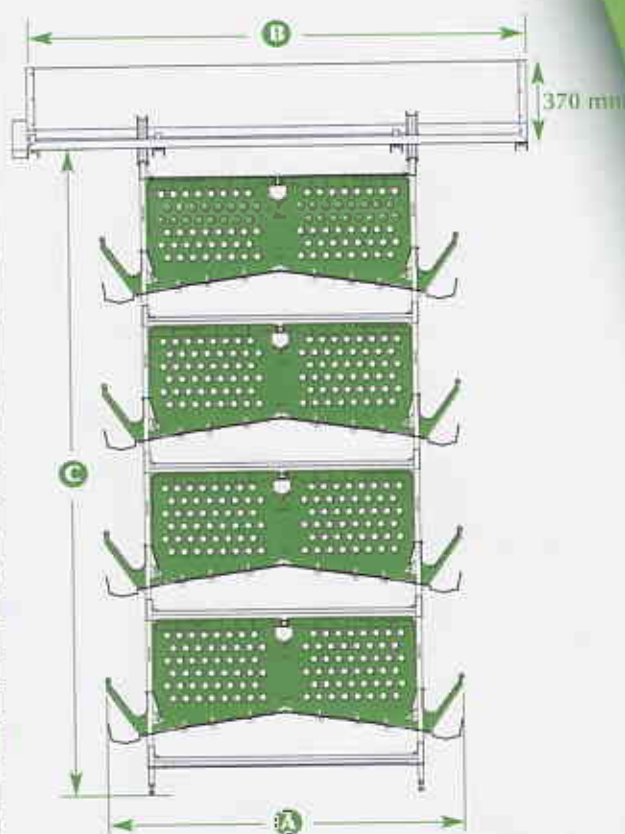
<b>Z 610 S 145</b>			
3	<b>1.445</b> 56.89	<b>2.000</b> 78.74	<b>1.916</b> 75.43
4			<b>2.498</b> 98.34
5			<b>3.080</b> 121.25
6			<b>3.662</b> 144.17
7			<b>4.244</b> 167.08
8	<b>2.200</b> 86.61	<b>4.826</b> 190.00	

<b>Z M.E.C. / Z M.E.C. (manure drying)</b>			
3	<b>Z M.E.C.</b> <b>1.600</b> 62.99	<b>2.200</b> 86.61	<b>2.248</b> 88.50
4			<b>2.900</b> 114.17
5	manure drying <b>1.694</b> 66.69	<b>2.280</b> 89.76	<b>3.552</b> 139.84
6			<b>4.204</b> 165.51
7			<b>4.856</b> 191.18
8			<b>5.508</b> 216.85
9	<b>2.440</b> 96.06	<b>6.160</b> 242.52	
10	<b>2.600</b> 102.36	<b>6.812</b> 268.19	

<b>Z WELFARE / Z WELFARE (manure drying)</b>			
3	<b>Z WELFARE</b> <b>1.600</b> 62.99	<b>2.200</b> 86.61	<b>2.248</b> 88.50
4			<b>2.900</b> 114.17
5	manure drying <b>1.694</b> 66.69	<b>2.280</b> 89.76	<b>3.552</b> 139.84
6			<b>4.204</b> 165.51
7			<b>4.856</b> 191.18
8			<b>5.508</b> 216.85
9	<b>2.440</b> 96.06	<b>6.160</b> 242.52	
10	<b>2.600</b> 102.36	<b>6.812</b> 268.19	

<b>Z C-R 500</b>			
3	<b>1.280</b> 50.39	<b>1.850</b> 72.83	<b>1.700</b> 66.92
4			<b>2.210</b> 87.00
5	<b>2.000</b> 78.74	<b>2.720</b> 107.08	

<b>Z C-R 630</b>			
3	<b>1.545</b> 60.83	<b>2.200</b> 86.61	<b>1.850</b> 72.83
4			<b>2.410</b> 94.88
5			<b>2.970</b> 116.53



N° Hens	<b>Z 610</b>		<b>Z M.E.C.</b>		<b>Z WELFARE</b>		<b>Z C-R 500</b>	<b>Z C-R 630</b>
	<b>Z 610</b> manure drying	<b>Z 610 S 145</b>	<b>Z M.E.C.</b> manure drying	<b>Z WELFARE</b> manure drying	<b>Z C-R 500</b>	<b>Z C-R 630</b>		
	CAGE FLOOR AREA PER HEN cm <sup>2</sup> / in <sup>2</sup>	CAGE FLOOR AREA PER HEN cm <sup>2</sup> / in <sup>2</sup>	CAGE FLOOR AREA PER HEN cm <sup>2</sup> / in <sup>2</sup>	CAGE FLOOR AREA PER HEN cm <sup>2</sup> / in <sup>2</sup>	CAGE FLOOR AREA PER HEN cm <sup>2</sup> / in <sup>2</sup>	CAGE FLOOR AREA PER HEN cm <sup>2</sup> / in <sup>2</sup>	CAGE FLOOR AREA PER HEN cm <sup>2</sup> / in <sup>2</sup>	CAGE FLOOR AREA PER HEN cm <sup>2</sup> / in <sup>2</sup>
6	<b>508</b> 78.74	<b>559</b> 86.65	<b>641</b> 99.36	<b>641</b> 99.36				
7	<b>436</b> 67.58	<b>479</b> 74.25	<b>549</b> 85.10	<b>549</b> 85.10				
8	<b>381</b> 59.06	<b>419</b> 64.95	<b>480</b> 74.40	<b>480</b> 74.40				
9	<b>339</b> 52.55	<b>373</b> 57.82	<b>427</b> 66.19	<b>427</b> 66.19				
10		<b>336</b> 52.08	<b>384</b> 59.52	<b>384</b> 59.52	<b>305</b> 47.28			
11					<b>277</b> 42.94			
12							<b>320</b> 49.60	
13							<b>296</b> 45.88	