

Care
Durability
Flexibility
Reliability
Service



MADE IN ITALY

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PRODUTTORI DI IMPIANTI AVICOLI
POULTRY EQUIPMENT MANUFACTURERS
 PRODUCTEURS
 Д'EQUIPEMENTS POUR L'AVICULTURE
 ПРОИЗВОДСТВО ОБОРУДОВАНИЯ
 ДЛЯ ПТИЦЕВОДСТВА
 FABRICANTES DE EQUIPOS PARA LA AVICULTURA
 養鷄設備メーカー
 家禽饲养设备厂家 양계 설비 제조업체

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The pictures and sketches contained in this brochure are for illustration purposes only and the Company reserves the right to update any material as necessary

Care

Durability

Flexibility

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VALLI's beginning



Dr. Roberto Valli

was born on the 27th of January 1924 in Galeata, a small village in the hills of "Romagna" near to the Tuscan border and Florence.

In the Thirties life in this part of Italy was still permeated of that "Renaissance" spirit full of experimentation and lively creativity which has forged so many artists.

The young Roberto took full advantage of this "spirit" by adding to his studies practical experiences in some of the many workshops of the area. A certificate in mechanics and a degree in economics completed the polyhedric nature of Dr. Valli.

During the years just after the Second World War the wish and the need to "create" and "manufacture" became almost a restless necessity and it did not take long for Dr. Valli's talents to show.

The very early cage models were designed: Broiler cages at first, Layer cages a little later. It was a success.

"Valli" equipment is made strong and durable; the technical solutions are original but yet simple and very effective.

The first Patents were issued and some of them are still in use today.

More and more "Valli" equipment gains favor in the market.

Today, after more than 50 years of hard work and commitment, the "Valli" name is widespread Internationally thanks to the trust of our Customers, the quality of our Suppliers and the stimulus of our Competitors.

Dr. Roberto Valli is promoter of a style "Made in Italy" based more than anything else on the passion and the love for what is done, which is the true and genuine spirit which is embedded in all "Valli" products.

The Passion and Love for what we do ...

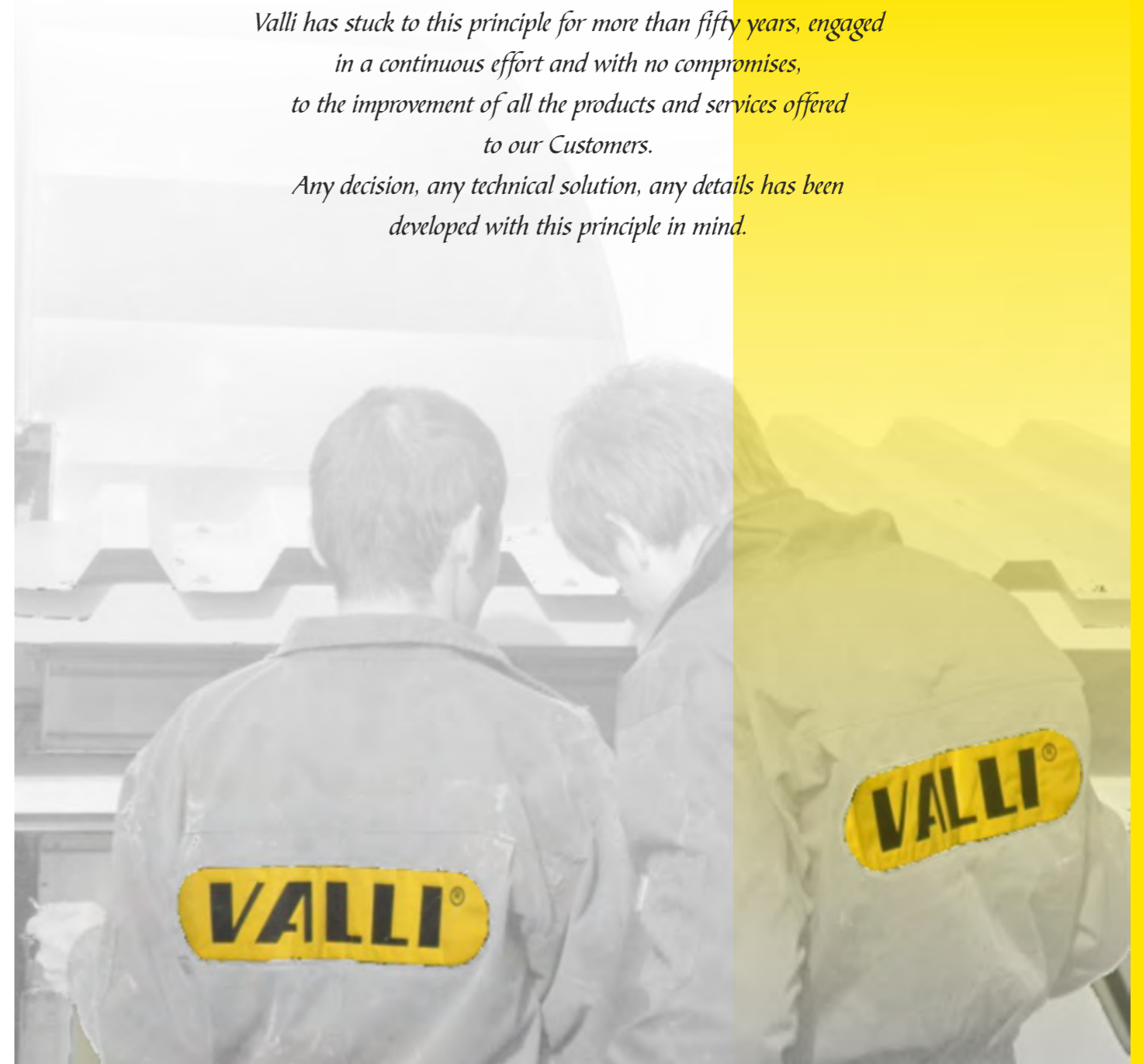


quality you can depend on

Quality is a life style, not an advertising formula or an abstract concept. It comes from an endless commitment, from experience, from the deep belief that only through quality it is possible to reach those goals that are the only guarantee for a balanced development of any activity.

Valli has stuck to this principle for more than fifty years, engaged in a continuous effort and with no compromises, to the improvement of all the products and services offered to our Customers.

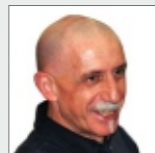
Any decision, any technical solution, any details has been developed with this principle in mind.



Our Staff is at your full Service

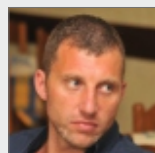


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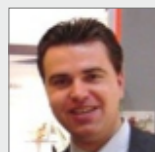
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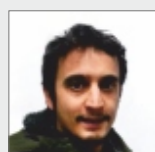
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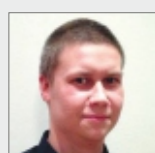
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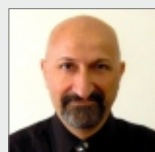


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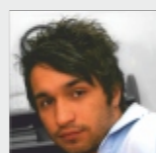
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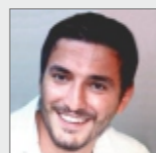


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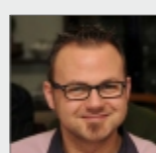


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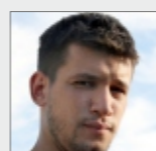


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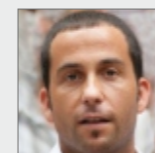
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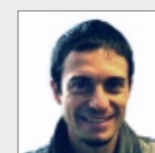


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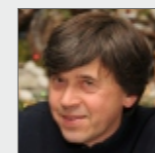
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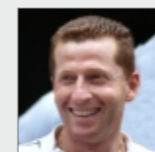


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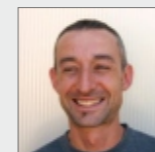
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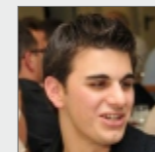
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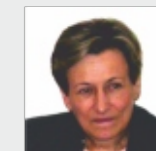
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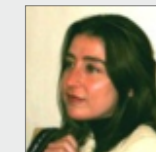
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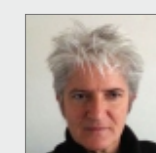


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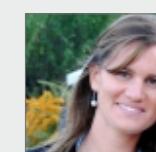


IT DEPARTMENT

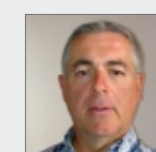
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REARING

... give them
the best start



REARING CAGES

. BELT CLEAN MULTI-TIER CAGE SYSTEMS WITH OR WITHOUT AIR DUCT (with or without catwalks for 6 tiers or more)

CAGE SPECIFICATIONS:

Measurements:
front mm 1000 (39"),
height mm 390 (15"),
depth mm 630 or 705 (25"-28")
depending on priority of feed
trough space or of total number
of pullets.

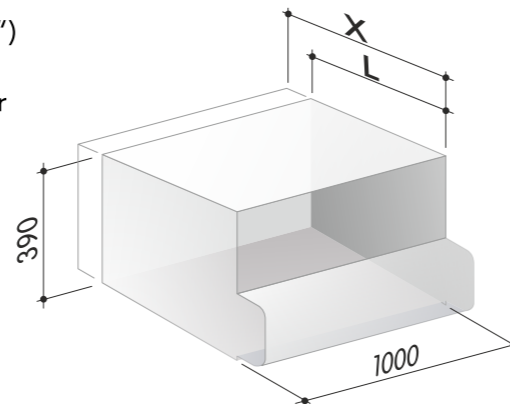
All cage is in zinc coated wire
mesh. Double zinc coating is
optional.

Floor mesh is mm 19x19
(3/4"x3/4").

Floating floor: supported over
longitudinal wires pulled from
end to end.

Metal plate edges
on access of chicks to the feed
trough and on the floor support are
rounded.

Cages of all tiers have
equal design so any tier can be
used for day-old chicks depending
on best conditions of lighting or
temperature.

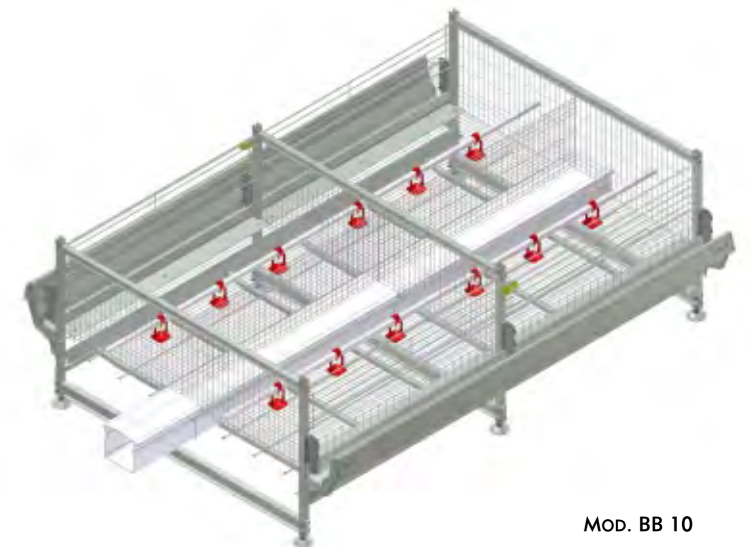


CAGE DEPTH

L - Large = mm 630
X - ExtraLarge = mm 705



NIPPLE DRINKERS: 360° side action, coloured,
nipple drinkers are used. For drier manure, drip cups
mounted on square tube are available on request.
Nipple drinkers are mounted on square tube that
can be raised or lowered in all (starting and growing
tiers). In each starting tier, two winching systems
operate the complete lines of drinkers from the front
end, they consist of a HT steel rope running on top
of cages from end to end, that lifts the drinking line
by mean of flex.cables.
The HT steel rope is connected to a chain meshing
on a sprocket. A ratchet wheel keyed on the same
shaft secure the drinking line in position: each tooth
corresponds to 20 mm (3/4") Up or Down.



Mod. BB 10



WINCHING SYSTEM

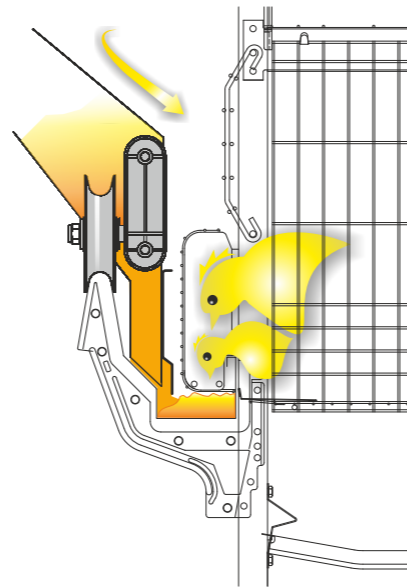
Through the Winching System it is possible to
rise/lower the drinking line of a complete starting tier.
This will permit to have always the right height in
relation to the growth of the pullets.

REARING

VERANDA



The full 1000 mm. opens the SLIDING DOOR



ADDITIONAL WIRE GRILL



ACCESS TO FEED IS AVAILABLE FROM DAY-OLD TO POINT OF LAY WITHOUT REGULATION. A SIMPLE ADDITIONAL GRILL IS AVAILABLE FOR THE FIRST WEEK. IT REDUCES THE WIRE SPACING FROM 38 TO 25 mm (FROM 1.5" TO 1")

FEEDING:

Easy access to the feed since the first day of age: the front wire grid, shaped as a **veranda** on the feed trough, ensures direct access of day-old chicks to the feed with no need of parts to be adjusted on chicks' size and age. The wire grid above the feed prevents feed spillage. An additional wire frame, reducing the wire spacing from 40 to 25 mm (from 1,5" to 1"), can be used to avoid escaping of chicks during the first week of age.

FEED TROUGHS:

FEED TROUGH: in metal sheet **1 mm thick**, with outer rail for running feed hopper and antispillage rim at back side. The famous strength and the unique connection system to the vertical frames makes the whole 3 structure very sturdy and maintain the accuracy of the feeding system perfect also after many year of heavy use.

DOORS:

Side sliding doors, one per cage, are standard: they can be partially open to catch pullets or fully open when putting paper on the floors or putting chicks into the cages by the chick box. Optionally we can supply two small side sliding or pivoting doors per cage.

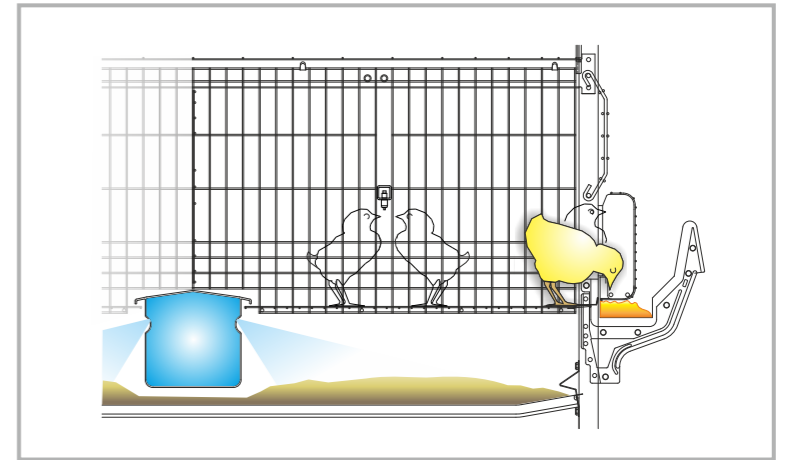
ADJUSTABLE SLIDE SYSTEM

THE FRONT OF THE CAGE IS NOW AVAILABLE WITH ALSO IN VERTICAL FEED SLIDE ACCESS



AIR DUCT:

Rearing cage may have an Air Duct to improve pullets climate conditions and pullet growth by providing fresh air to all the birds, and manure drying. AIR DUCT in PVC has a large section (205 sq.cm) for very power-efficient ventilation. The diameter of blowing holes, ranging from 6 to 8 mm, is custom made according to cage system length to optimise ventilation uniformity.



VALLI TRAVELLING HOPPER FEED DISTRIBUTION:

Patented and unique, it consists of independent hoppers running, each one with two wheels on the round outer profile of the feed troughs. The feed drops by gravity and it is released into the trough by an adjustable dispenser, the setting of the feed level is done by a shutter operated by two handles on the sides of the hopper. Two "V" shaped plows, running over the flat bottom of the feed trough and operated by the travelling hopper, push the feed towards the birds under the veranda shaped grid. The hoppers and the filling system are designed to avoid feed bridging or feed separation. The filling system is provided with one shutter per hopper so that, during the starting period, some of them can run empty. Not necessary to preset at factory which tier is to be used for starting as anyone of the hoppers can be isolated from the filling system. Feed control: the feeders are operated by a time clock with the possibility of setting the running times and the parking time at the far end of the cages thus making the feed quantity control very flexible.



- Advantages of Valli travelling feed hoppers:
- . Each hoppers follows precisely the profile of the feed trough on which it runs: the distribution is very accurate.
 - . The feed distribution will be very accurate also after many year of use as the Valli feed trough will always be straight.
 - . All the pullets eat the same feed in quantity and quality not depending on feed selection and consumption during distribution.
 - . No spots of pilling-up or stale feed as the feed is moved at each hopper run.
 - . The travelling hoppers require very low power consumption and low maintenance.
 - . The travelling hoppers produce no wear on the feed troughs.



NEW MODELS WITH FEEDING SYSTEM BY FLAT CHAIN INSIDE THE CAGES ACCESSIBLE FROM BOTH SIDES NOW AVAILABLE



THE CHAIN-SPEED IS 12 MTS/MIN (40 FT/MIN). EACH CIRCUIT IS DRIVEN BY A MOTOR GEARBOX OF 0.75 Kw (1 HP)

FLAT CHAIN FEEDING:

It is installed in the same cage system with the same feed trough (with no need of wear-plates on the joints). The chain-speed is 12 mts/min (40ft/min). Each circuit is driven by a motor gearbox of 0.75 Kw (1 HP). The feed level is adjusted by a graduated shutter. One feed hopper per circuit is standard, but on long cage rows, each circuit can be provided with two hoppers to split the chain circuit in two to reduce the chain running time and feed selection. Each hopper has a feed return wheel to better control the returning feed. On the control panel it is possible to set starting times, running time and starting sequence of the drive motors of each tier to reduce electrical loads and to match the capacity of the filling augers.

CLEANING SYSTEMS FOR MANURE ON BELTED REARING CAGES:

Consisting of polypropylene belt 1 mm thick with glossy surface, side rails raising and supporting continuously the sides of the belt, removable plastic manure deflectors above the two sides, open sides on the top and on the return for better ventilation and manure drying.

CROSS BARS under cleaning belt every 38 cm give very positive support to the weight of the manure for a soft start and running of belts. The wire mesh of the cage roof, spaced from the returning belt, prevents pullets from reaching any eventual residual dirt.

The **heavy-duty drive**, designed for cages up to 150 mts long (500 ft), consists of:

- A steel calibrated tube roller dia 120 x 5 thick mounted on exagonal shaft 40 mm.
- Two or three (depending on cage length) rubber coated pressure rollers mounted on hexagonal shaft 40 mm.
- Four heavy duty ball bearing supports.

- Two gear wheels to synchronize main roller and pressure rollers.
- Two springs with tensioning bolts to adjust pressure between rollers.
- One geared motor, one per belt, directly keyed on the main shaft without transmission chains.
- Cleaning scraper for main roller.
- Steel scraper for belt cleaning.
- All components mount on two sliding plates each with only one adjustment bolt for quick and easy belt tracking.

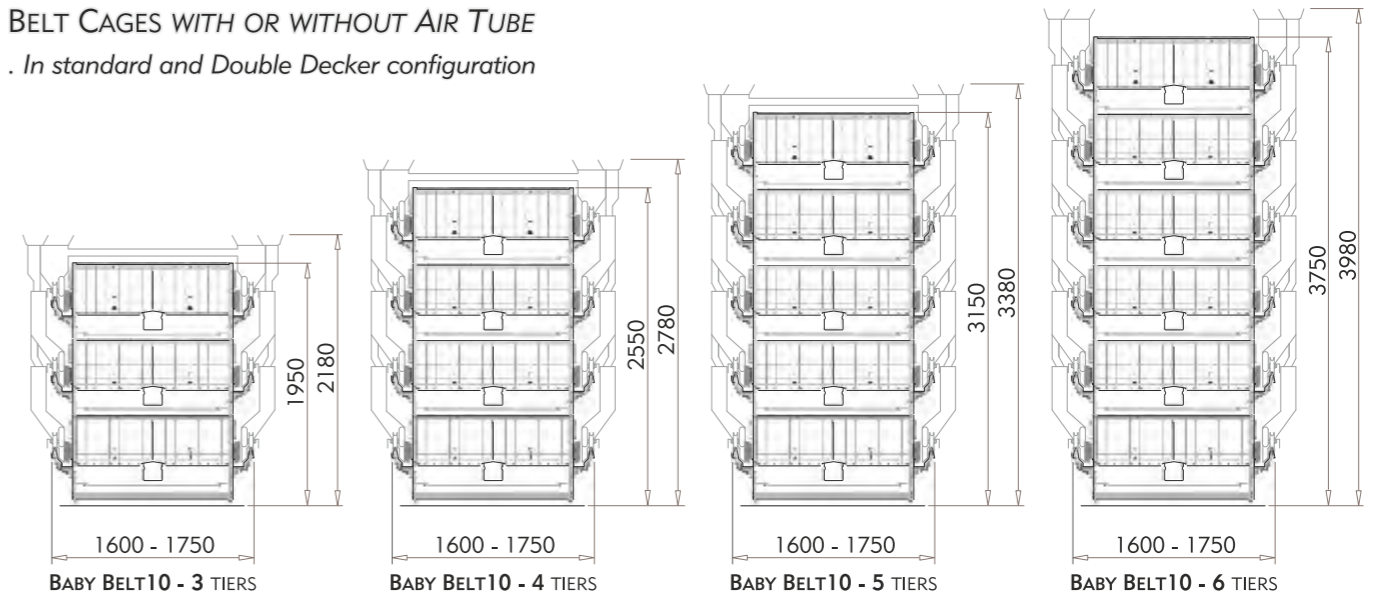
The heavy-duty belt return unit includes a steel spiral in order to remove dirt from the returning belt helped by two deflectors, built-in sealed bearings, quick-release chain-operated tensioning system and bolts for fine adjustment of belt tracking.

For more details see "LAYING section" at pag. 16-17

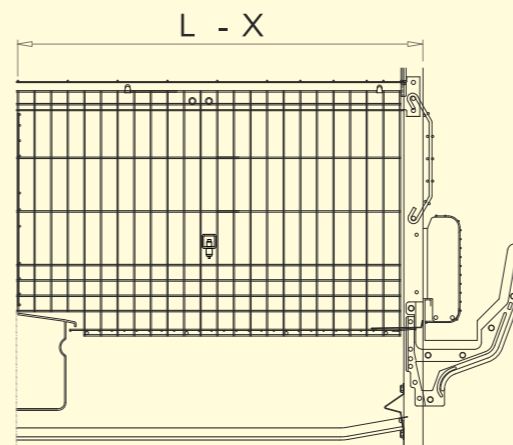
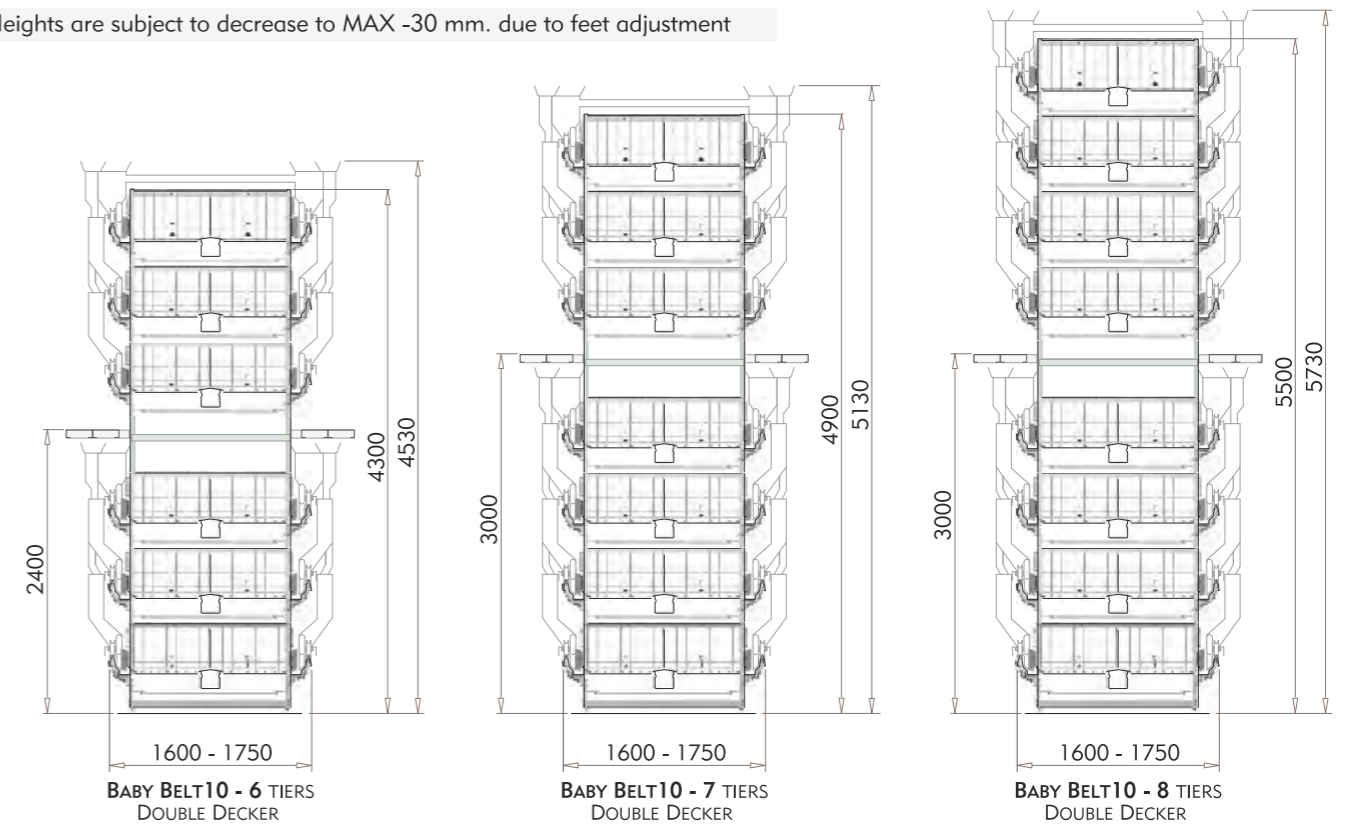


REARING CAGE MODELS

BELT CAGES WITH OR WITHOUT AIR TUBE
In standard and Double Decker configuration



Heights are subject to decrease to MAX -30 mm. due to feet adjustment



BABY BELT 10 MODELS		LARGE	EXTRALARGE
		L = 630	X = 705
CAGE DEPTH	mm.		
CAGE FRONT	mm.	1000	1000
FLOOR SURFACE	cm ²	6300	7050
FLOOR MESH	mm.	19 x 19	19 x 19
SECTION LENGTH	mm.	2004	2004
OVERALL WIDTH	mm.	1600	1750

WALLEN



... excellent feed conversion
 ... easy operation
 ... maximum saving
 ... high welfare

LAYING CAGES

- . BELT CLEAN MULTI-TIER CAGE SYSTEMS WITH OR WITHOUT AIR DUCT (with or without catwalks for 6 tiers or more).
- . A FRAME FULL-STEP CAGE SYSTEMS FOR OPEN HOUSES IN TROPICAL CLIMATE CONDITION.

BELT-CLEAN LAYING CAGE SYSTEM

PLASTIC UPRIGHT:

Strengthens the wire partitions, supports the cage on the feed trough, protects birds and hands from sharp end of the wires.

WIRE PARTITION:

For excellent ventilation and light conditions. Wire spaces are very narrow to reduce feathers pecking and loss.

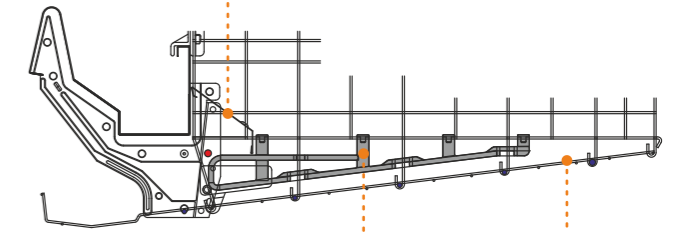
SLIDING DOOR:

With horizontal rods 5 mm and safety lower guide . The locking system is built in one of the horizontal rods.



PROTECTION BAFFLE:

To prevent birds reaching eggs on the collecting belts and to deflect eventual lumps of manure onto the belts. Optionally the baffle can be perforated for birds claw shortening.



PLASTIC FRAME:

To avoid eggs stopping on the vertical wires.

FLOATING FLOOR:

Over longitudinal wires running from end to end of the house and supported on every partition, maintaining the floor plane but not stiff: all eggs roll onto the collecting belts without crowding in one spot and with reduced floor slope.

All wire mesh parts are hot-dip zinc-coated. Some parts as cage floor or partitions or all wire-mesh can be optionally supplied with double hot-dip zinc-coating.



FEED TROUGH:

In metal sheet 1 mm thick, with outer rail for running feed hopper and antispillage rim at back side.

The famous strength and the unique connection system to the vertical frames makes the whole structure very sturdy and maintains accuracy of feeding also after many years of heavy use.



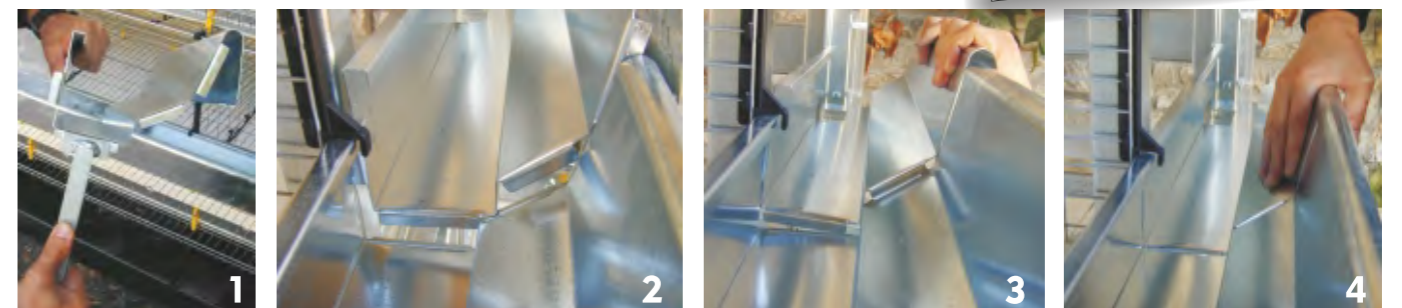
THE VALLI SELF SUPPORTING FOOD TROUGH

- It is **FAST:** as it improves installation times for the fitters,
- It is **RELIABLE:** thanks to its durability,
- It is **PRECISE:** thanks to the extremely accurate feed distribution by the travelling feeders,
- It is **EFFECTIVE:** thanks to its versatility to support the Valli inspection trolley, which can also be used in the population or depopulation of the house,
- It is **ECONOMICAL:** thanks to the fact that there is no feed waste,
- It is **SAFE:** thanks to the rounded outside profiles with no corners or sharp edges,
- It is **PROTECTIVE:** thanks to its profile acting as a guardrail to avoid possible damage that may be caused by the trolley used loading or unloading of the birds,
- It is **STRONG:** self supporting feed trough 1 mm thick are supplied on all length and all tiers of cages.

Built to last strong as ever



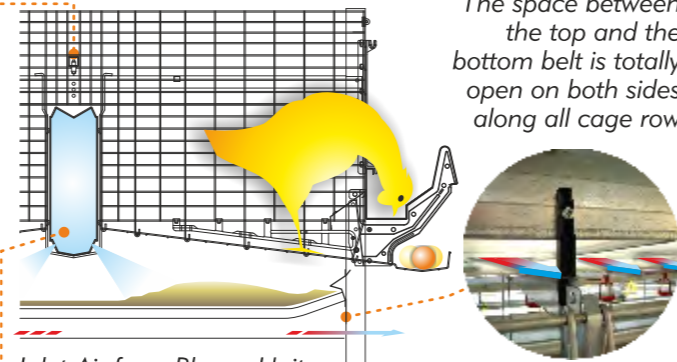
EASE AND PRECISION OF ASSEMBLY



LAYING

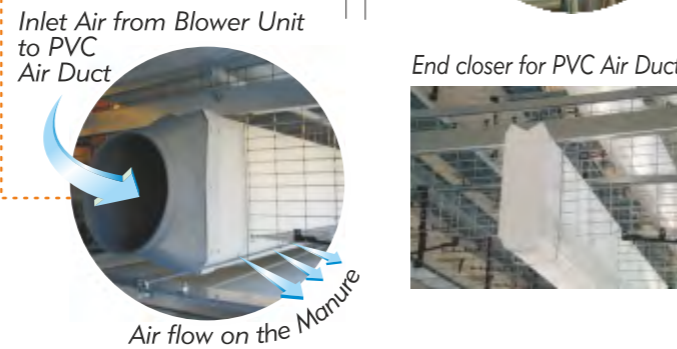
NIPPLE DRINKERS:

2 stainless steel push-action nipples in the middle of two opposite sided cages are standard. Birds have access to 2 nipples. More nipples can be installed on request. A continuous drip collecting "V" shaped trough mm 70 wide is installed under the nipples on cages without air duct.



AIR DUCT:

Laying cages may have an Air Duct to improve birds' climate conditions and egg production by providing fresh air to all the birds, and manure drying. AIR DUCT in PVC of large section (275 sq.cm) for a very power-efficient ventilation. The diameter of blowing holes, ranging from 6 to 8 mm, is custom made according to cage system length to optimize ventilation uniformity. The air duct incorporates on the top a wide continuous channel for drip collection from the nipple drinkers.



CLEANING SYSTEM FOR MANURE ON BELTED LAYING CAGES:

Consisting of polypropylene belt 1 mm thick with glossy surface, side rails raising and supporting continuously the sides of the belt, removable plastic manure deflectors above the two sides, open sides on the top and on the return for better ventilation and manure drying. One geared motor per tier is directly keyed on the drive shaft.



MANURE BELT IDLER SPIRAL

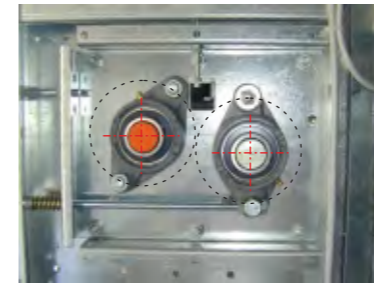
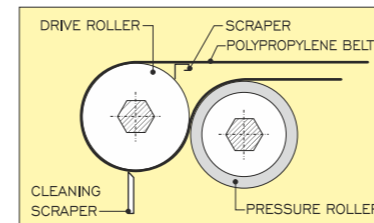


MANURE BELT DRIVE UNIT



BELT DRIVE UNIT FOR MANURE

The geared motor, **ONE EACH BELT,** is directly keyed on the drive shaft



The heavy-duty drive, designed for cages up to 150 mts long (500 ft), consists of:

- A steel calibrated tube roller dia 120-160 x 5 thick mounted on exagonal shaft 40 mm.
- Two or four (depending on cage length) rubber coated pressure rollers mounted on hexagonal shaft 40 mm.
- Four heavy duty ball bearing supports.
- Two gear wheels to synchronize main roller and pressure rollers.
- Two springs with tensioning bolts to adjust pressure between rollers.
- One geared motor, one per belt, directly keyed on the main shaft without transmission chains.
- Cleaning scraper for main roller.
- Scraper for belt in stainless steel.
- All components mount on two sliding plates each with only one adjustment bolt for quick and easy belt tracking.

The heavy-duty belt return unit includes a steel spiral with built-in sealed bearings, two dirt deflectors, quick-release chain-operated tensioning system and bolts for fine adjustment of belt tracking.

SUMMARY OF BELT-CLEAN LAYING CAGE SYSTEM

POLYPROPYLENE BELT:

Raised at both sides on continuous rails.

CROSS BARS:

Under top belt.

NIPPLE DRINKERS:

Birds have access to 2 nipples.

SIDE RAILS/DEFLECTOR PROFILE:

With rounded edges for cleaning belt.

AIR DUCT:

275 sq.cm. section of air passage and incorporating drip collection channel.

PLASTIC UPRIGHT:

For protection of cage partition front.

SLIDING DOOR:

With built-in lock.

FEED TROUGH:

Wide and deep for minimum feed spillage and strong for long life. The incorporated rail supports and guide the travelling feed hopper (or the inspection trolley) and can be stepped for cage inspection.

PROTECTION Baffle:

The lower edge is rounded for birds safety. It can be optionally perforated for claw shortening.

PLASTIC FRAME:

To avoid eggs stopping at vertical wires.

FLOATING FLOOR:

Supported over longitudinal wires pulled from end to end. It is very soft and gentle with eggs without bowing at the center. Excellent roll-out of eggs with no crowding at the center of egg tray.

"A" FRAME CAGE SYSTEM WITHOUT MECHANICAL MANURE CLEANING

PLASTIC UPRIGHT: See page 14

Strengthens the wire partitions, supports the cage on the feed trough, protects birds and hands from sharp end of the wires.

WIRE PARTITION: See page 14

For excellent ventilation and light conditions. Wire spaces are very narrow to reduce feathers pecking and loss.

PLASTIC FRAME: See page 15

To avoid eggs stopping on the vertical wires.

FEED TROUGH: See page 15

In metal sheet 1 mm thick, with outer rail for running feed hopper and antipillage rim at back side. The famous strength and the unique connection system to the vertical frames makes the whole structure very sturdy and maintain the accuracy of the feeding system perfect also after many years of heavy use.

FLOATING FLOOR: See page 15

Over longitudinal wires running from end to end of the house and supported on every partition, maintaining the floor plane but not stiff: all eggs roll onto the collecting belts without crowding in one spot and with reduced floor slope.

All wire mesh parts are hot-dip zinc-coated. Some parts as cage floor or partitions or all wire-mesh can be optionally supplied with double hot-dip zinc-coating.

SLIDING DOOR: See page 14

With horizontal rods 5 mm and safety lower guide. The locking system is built in one of the horizontal rods.

PROTECTION Baffle: See page 15

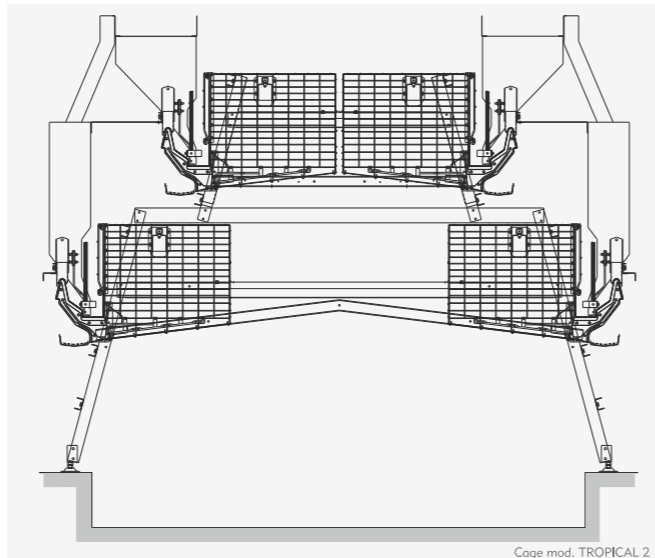
To prevent birds reaching eggs on the collecting belts and to deflect eventual lumps of manure onto the belts. Optionally the baffle can be perforated for birds claw shortening.

NIPPLE DRINKERS: See page 16

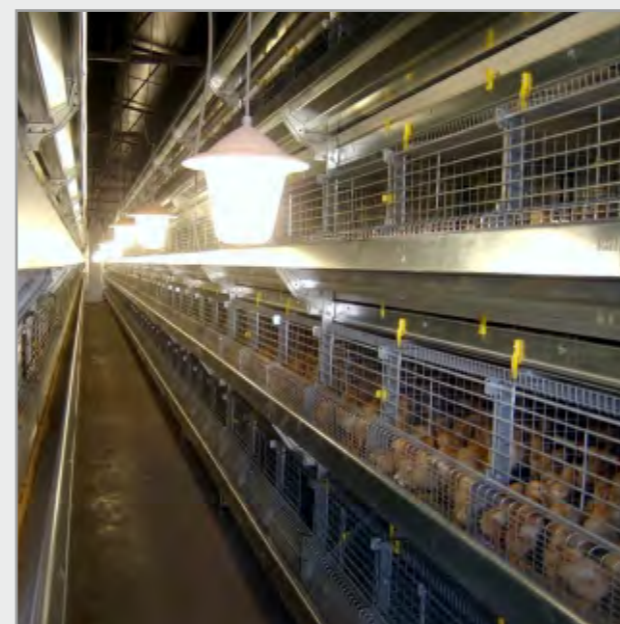
Stainless steel push-action nipples, one per each cage partition, are standard. Birds have access to 2 nipples. Each nipple is provided of a drip cup and plastic frame to protect partition wire from water splashes.

DROPPING OF MANURE (REF. "A" FRAME LAYING CAGE SYSTEM)

Full Step cages 2 tiers with free drop of manure without deflectors. All cage models have **FULL CAGE SIZE** without slanted back. Manure collection can be done in deep pit for long storage or into shallow pits, optionally with mechanical cleaning scraper. At the end of the house the manure can be conveyed, elevated outside and loaded onto a truck by a stable chain.



PICTURES OF LAYING AND REARING CAGES



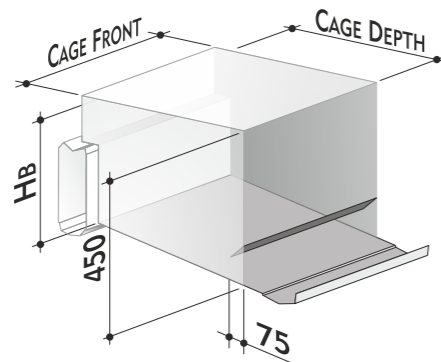
LAYING

LAYING CAGE MODELS

CAGE WITH AIR TUBE

for following Cage models:

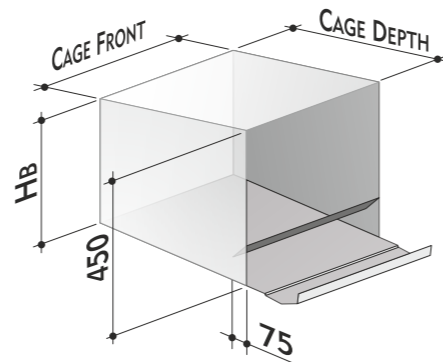
. BELT



CAGE WITHOUT AIR TUBE

for following Cage models:

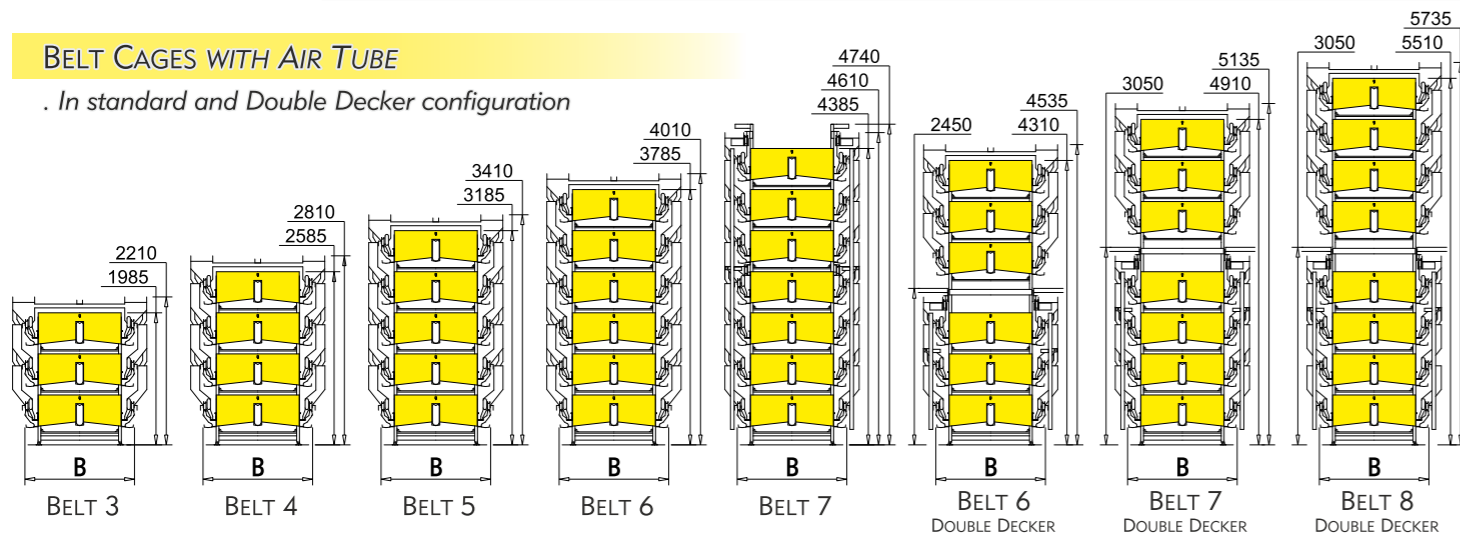
. BELT . EUROPA . TROPICAL



		S = SMALL	L = LARGE	XL = EXTRA LARGE	XXL = EXTRAEXTRA LARGE
CAGE DEPTH	mm	500	550	600	650
CAGE FRONT	mm	600	600	600	600
HB (HEIGHT AT THE BACK)	mm	390	385	380	375
FLOOR SURFACE	sqcm	3000	3300	3600	3900
FLOOR SLOPE	degrees	7	7	7	7
SECTION LENGHT	mm	2435	2410	2410	2410

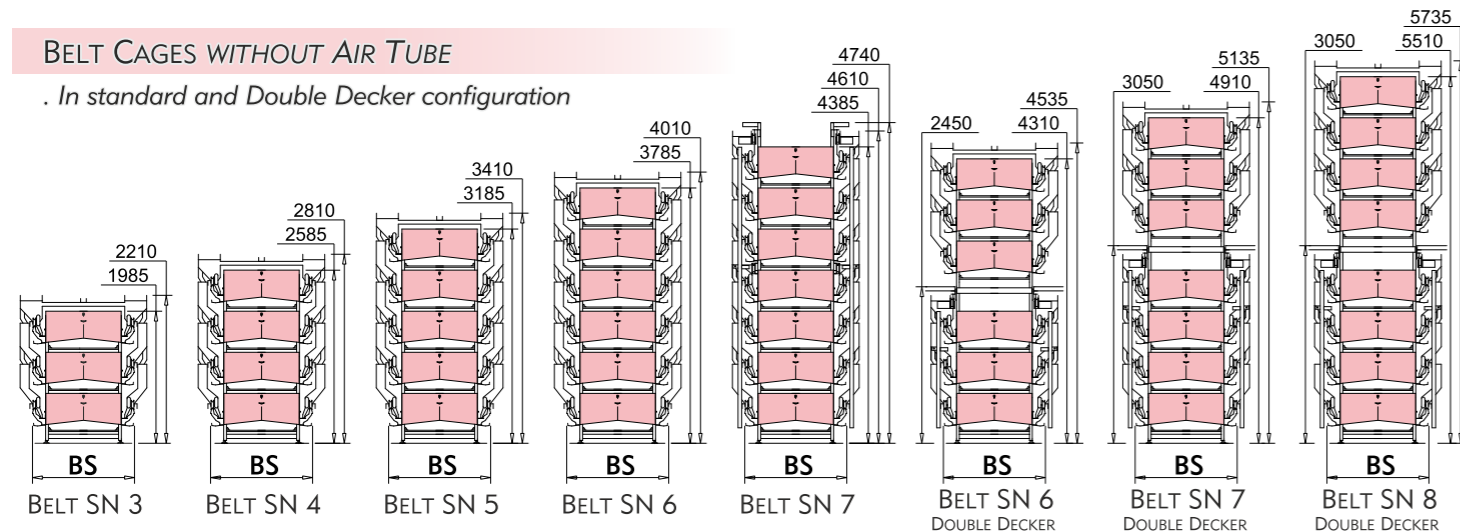
BELT CAGES WITH AIR TUBE

. In standard and Double Decker configuration



BELT CAGES WITHOUT AIR TUBE

. In standard and Double Decker configuration

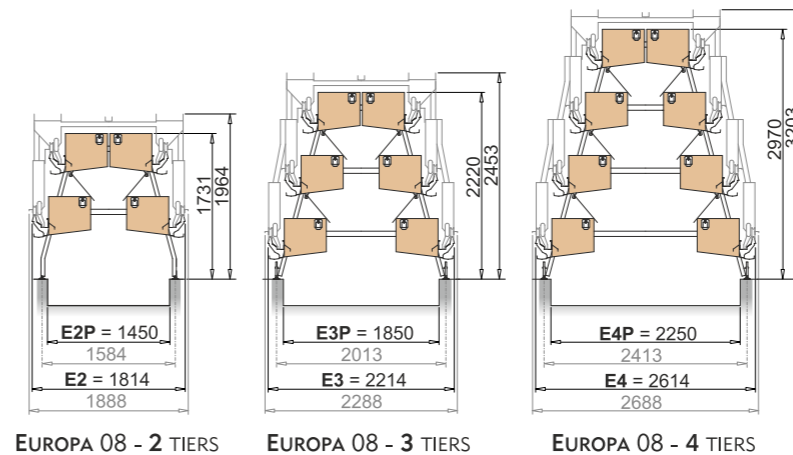


		CAGE DEPTH			
		S = 500	L = 550	XL = 600	XXL = 650
■	B mm	-	1550	1650	1650*
■	BS mm	-	1450	1550	1650
■	E2 mm	1814	-	-	-
■	E2P mm	1450	-	-	-
■	E3 mm	2214	-	-	-
■	E3P mm	1850	-	-	-
■	E4 mm	2614	-	-	-
■	E4P mm	2250	-	-	-
■	T2 mm	2255	-	-	-
■	T2P mm	1980	-	-	-
■	T3 mm	2715	-	-	-
■	T3P mm	2400	-	-	-

(*): Air Tube underneath the floor panel

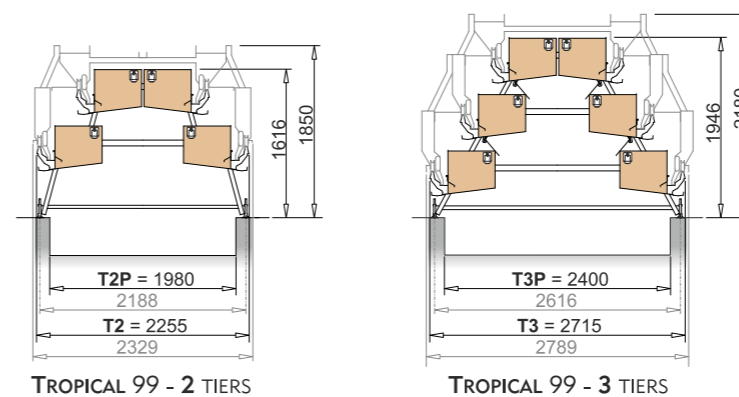
EUROPA CAGES

. For Deep-Pit or Shallow Pit System



TROPICAL CAGES

. For Deep-Pit or Shallow Pit System in Tropical Climates



Heights are subject to decrease to MAX -30 mm. due to feet adjustment





Space COLONY

VALLI OFFERS TWO OPTIONS:



NEST at the FRONT

- LAYING NEST SET AT THE FRONT FOR SHORTER RUN OUT OF EGGS IMPROVING CLEANLINESS AND QUALITY OF SHELL.



NEST at the BACK

- STANDARD DESIGN WITH LAYING NEST AT THE BACK

- ADDITIONAL TROUGH (PATENTED) INSIDE THE COLONY: PROVIDES LITTER MATERIAL TO THE SCRATCH MATS AND EXTRA FEEDING SPACE FOR MORE HENS PER COLONY.

- FIELD TESTED IN SEVERAL EUROPEAN COUNTRIES

- RESEARCH AND DEVELOPMENT ON ENRICHED COLONIES SINCE 1999



PICTURES OF SPACE COLONY



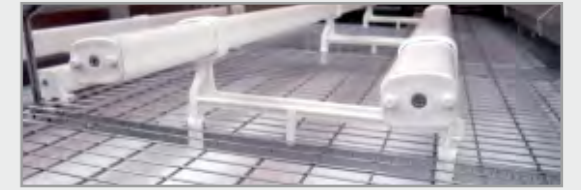
MULTI-TIER SYSTEM FOR LAYING HENS - NEST AT THE BACK



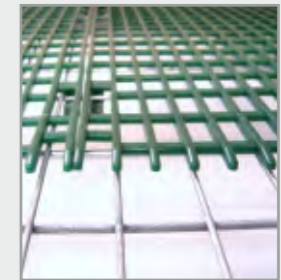
• ADDITIONAL FEED TROUGH - SCRATCH MAT



KEY FEATURES



• ERGONOMIC COLONY WITH COMFORTABLE PERCH



NEST AT THE BACK

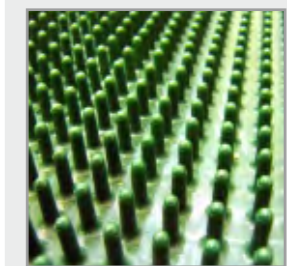


NEST AT THE FRONT

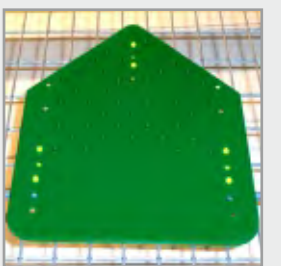
COMFORTABLE NEST MAT



• GENTLE AND EFFECTIVE CLAW SHORTENER



• SCRATCH MATS



• DOOR LOCK



• NEST CURTAIN



• EGG DEVIATOR

• NEST AT THE FRONT



TECHNICAL DATA

SPACE MODELS	Space COLONY				Space OUT			Space AVIARY
	52 - 56 - 60 - 64	72 72L	86 86L	72	42+42	45+45	44+44	
COLONY SIZE mm.	52 = 1315 x 3008 56 = 1415 x 3008 60 = 1505 x 3008 64 = 1605 x 3008	1805x3008	2145x3008	1805x3008	1050x3008 x 2	1125x3008 x 2	1125x3008 x 2	
LENGTH OF MODULAR SECTION mm.	3010 c/c	3010 c/c		3010 c/c			3010 c/c	
FLOOR SLOPE	7° = 12%	6.5° (11.4%)	6° (12%)	6.5° (11.4%)			6.5° (11.4%)	
TOTAL AREA PER COLONY cm ²	52 = 39.550 56 = 42.550 60 = 45.250 64 = 48.250	54.250	64.500	54.250	31.580 x 2	33.840 x 2	33.840 x 2	
WIDTH OF EGG BELT mm.	100	100 140		140			140	
OVERALL WIDTH mm.	52 = 1650 56 = 1750 60 = 1840 64 = 1940	72 = 2140 72L = 2230	86 = 2480 86L = 2570	2190	2490	2630	2630	
NEST AT THE FRONT	●	●		●			●	
NEST AT THE BACK	●	○		○			○	
MIN. COLONY HEIGHT mm.	450	450		490	470	460	460	
HEIGHT TIER TO TIER mm.	700	710	725	750			750	
HEIGHT 2 TIERS mm.							2125	
HEIGHT 3 TIERS mm.	2450	2460	2480 2480	2530 2530	2625		2875	
HEIGHT 4 TIERS mm.	3150	3160	3190 3190	3255 3255	3375			
HEIGHT 5 TIERS mm.	3850	3860	3900 3900	3980 3980	4125			
HEIGHT 6 TIERS mm.	4550	4560	4610 4610	4705 4705	4875			
HEIGHT 6 TIERS DD mm.	5120	5130	5170 5170	5250 5250	5395			
HEIGHT 7 TIERS DD mm.	5820	5830	5880 5880	5975 5975	6145			
HEIGHT 8 TIERS DD mm.	6520	6530	6590 6590	6700 6700	6895			
HEIGHT 9 TIERS TD mm.	7790	7800	7860 7860	7970 7970	8165			
HEIGHT 12 TIERS QD mm.	10460	10470	10550 10550	10690 10690	10935			
HEIGHT WITH TRAVELLING FEEDERS								

- Meet requirements of the best rationalization of spaces to house the highest number of birds conforming to EC Council Directive 1999/74/EC.
- The best of simplicity as far as running and maintenance.
- Multi-tier colonies with possibility of intermediate catwalks from 3 to 12 tiers/floors.
- With or without tube for manure drying system with no increase of the dimensions of the cages.
- Low mortality.
- Design oriented to maximize animal welfare.
- Egg belts 100 mm or 140 mm wide.
- Provided with external guardrails. The rails support the inspection trolleys which can be adjusted in height to reach all tier.
- Space COLONY 52 - 56 - 60 - 64: Main feeding system by Travelling Hoppers or Chain Feeders combined with additional trough with spiral.
- Space COLONY 72 - 86: Main feeding system by Travelling Hoppers or Chain Feeders combined with continuous additional trough with spiral.
- Space OUT and Space AVIARY:
Only one feeding system by flat chain inside the colonies accessible from both sides.
- Egg collection by Elevators or Lift system: the egg collection is automatically operated at time intervals for an even distribution of the eggs on the belts.
- The usual Valli skill and experience at the service of durable equipment with excellent performances.



quality you can depend on

WIDE CHOICE OF COLONY CONFIGURATIONS

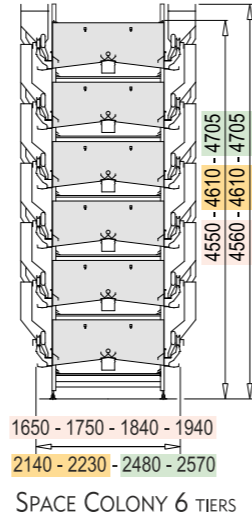
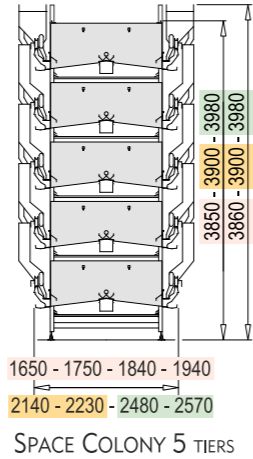
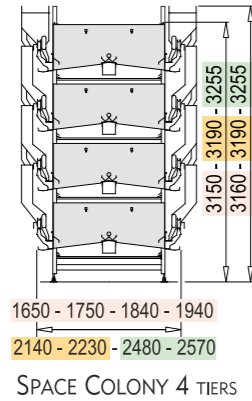
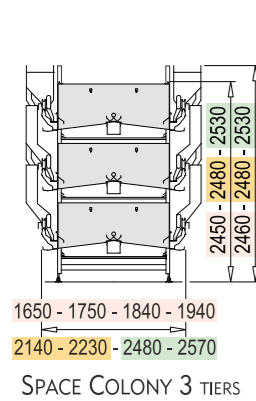
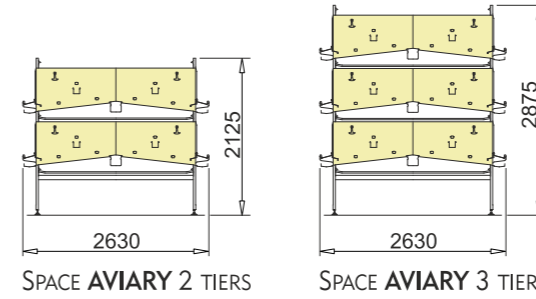
Space AVIARY

CONVERTIBLE EQUIPMENT

- AVAILABLE IN MULTI TIER CONFIGURATIONS
- WITH OR WITHOUT INTERMEDIATE CATWALK
- WITH OR WITHOUT AIR TUBE

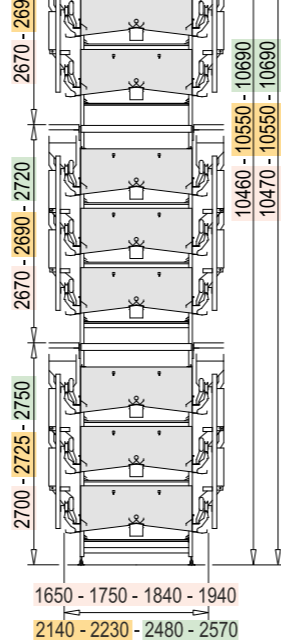
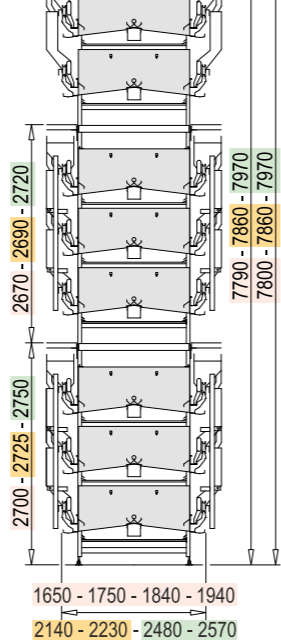
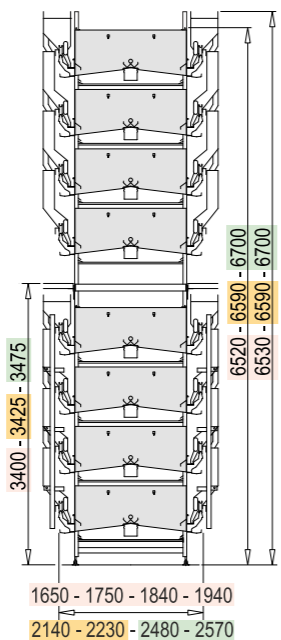
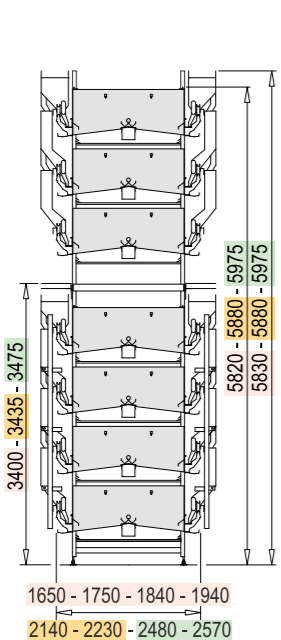
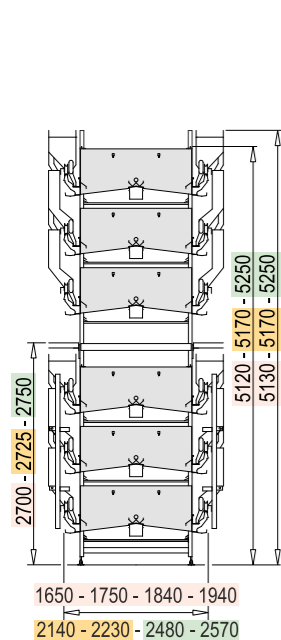
Space COLONY

Dimensions refer to colonies with minimum height of mm. 450

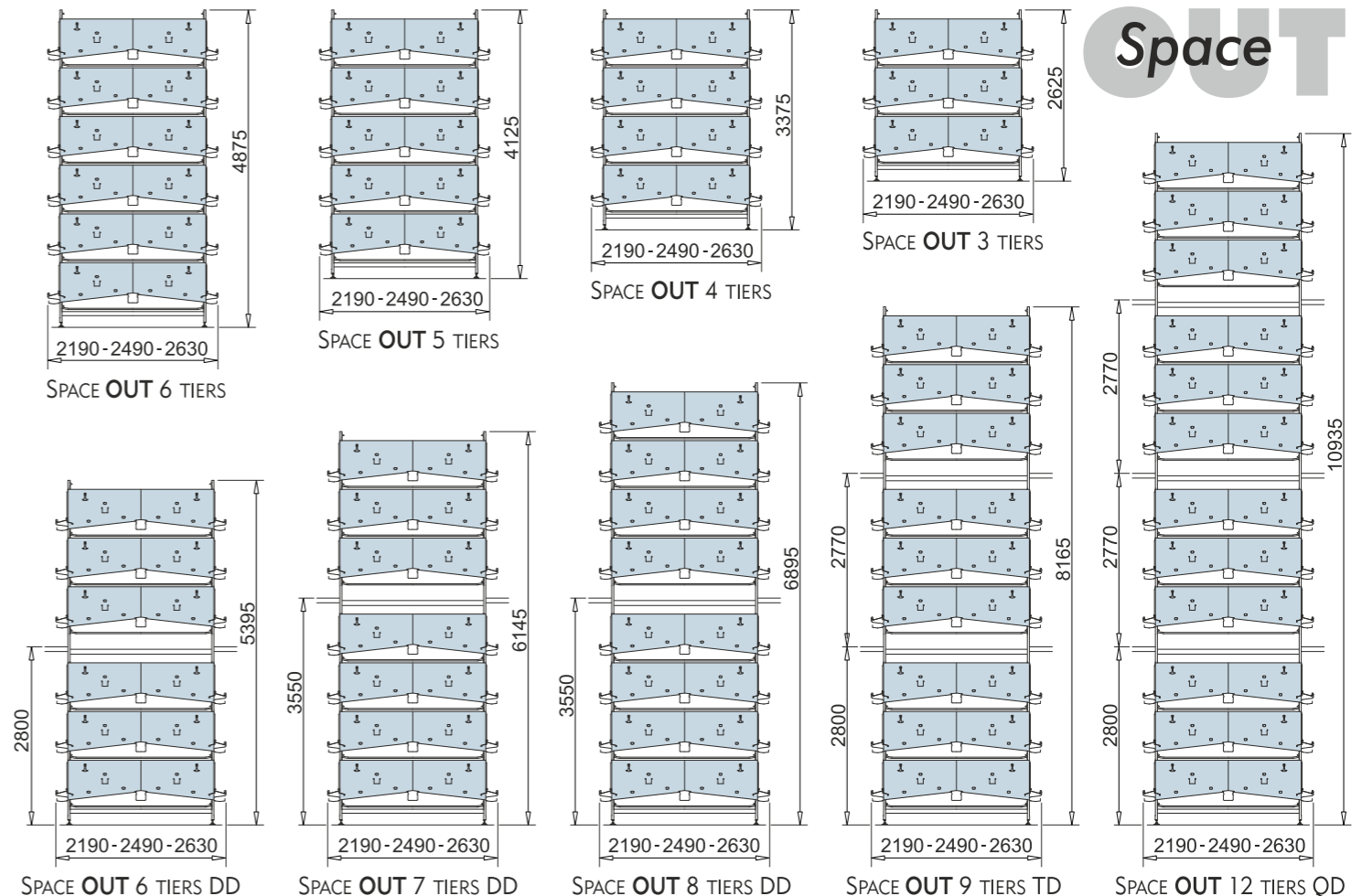


	SC 52	SC 72	SC 86
	SC 56	SC 72L	SC 86L
	SC 60		
	SC 64		
MINIMUM HEIGHT	mm. 450	450	450
HEIGHT TIER TO TIER	mm. 700	710	725

Heights are subject to decrease to MAX -30 mm. due to feet adjustment



Space OUT



SPACE COLONY 6 TIERS DD SPACE COLONY 7 TIERS DD SPACE COLONY 8 TIERS DD SPACE COLONY 9 TIERS TD SPACE COLONY 12 TIERS QD

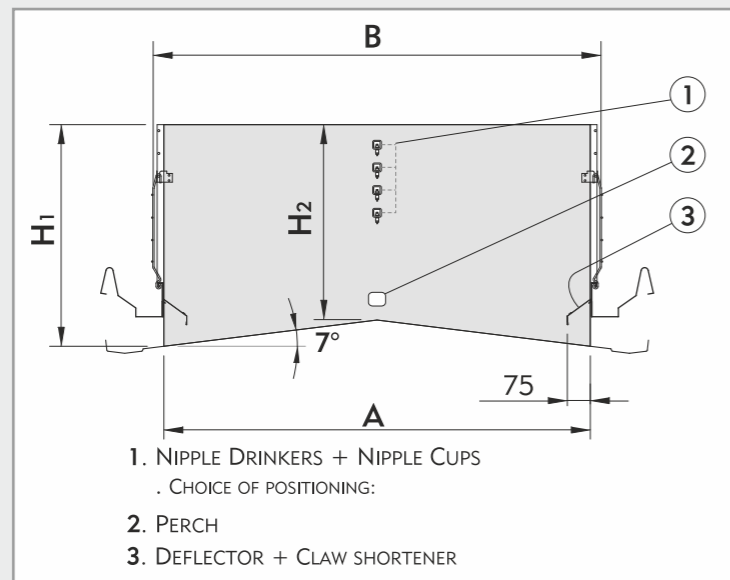
SPACE OUT 6 TIERS DD SPACE OUT 7 TIERS DD SPACE OUT 8 TIERS DD SPACE OUT 9 TIERS TD SPACE OUT 12 TIERS QD

LAYER BREEDERS - TECHNICAL DATA



SPACE FAMILY MODELS		SF 10
A - WIDTH BACK TO BACK FEED TROUGH	mm.	1315
B - WIDTH DOOR TO DOOR	mm.	1350
H1 / H2 MAX / MINIMUM HEIGHT OF THE COLONY	mm.	695 / 615
FLOOR SLOPE		7° = 12%
HEIGHT TIER TO TIER	mm.	850
COLONY SIZE	mm.	1315 x 2410
COLONY SURFACE	cm ²	31.690
SUGGESTED CAPACITY COCKS/HENS	no.	4/36
OVERALL WIDTH	mm.	1645
HEIGHT 2 TIERS	mm.	1940 2200
HEIGHT 3 TIERS	mm.	2790 3050
HEIGHT 4 TIERS	mm.	3640 3900
HEIGHT 6 TIERS DD	mm.	5695 5955
HEIGHT 7 TIERS DD	mm.	6545 6805
HEIGHT 8 TIERS DD	mm.	7395 7655

HEIGHT WITH TRAVELLING FEEDERS



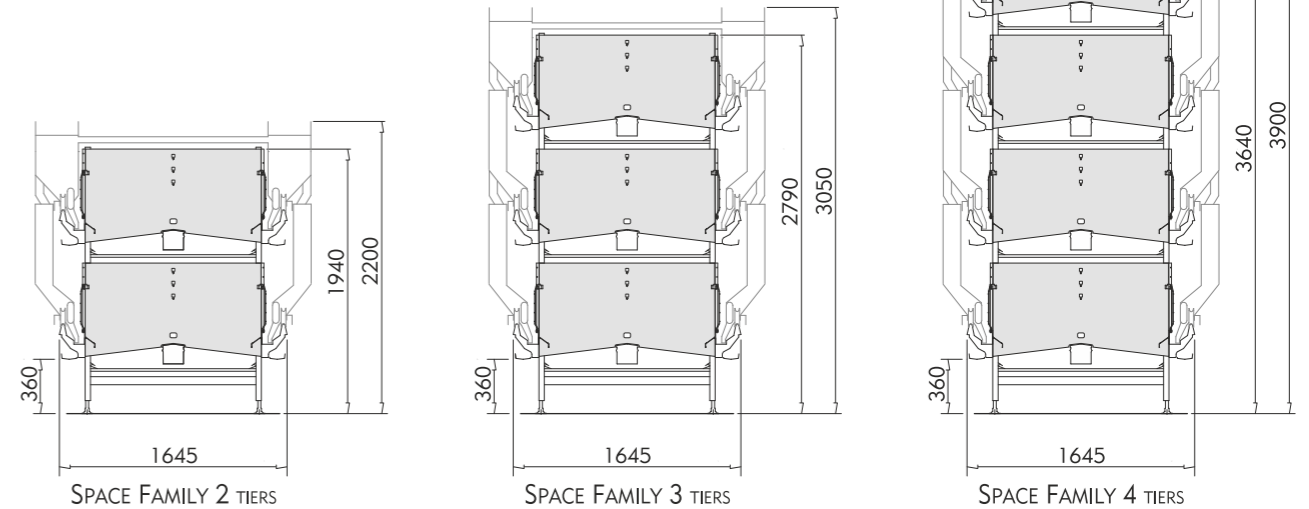
1. NIPPLE DRINKERS + NIPPLE CUPS
CHOICE OF POSITIONING:
2. PERCH
3. DEFLECTOR + CLAW SHORTENER

COLONY SECTION

- VERY LARGE OPEN SPACE FOR MAXIMUM COMFORT
- ACCURACY OF CONSTRUCTION DETAILS FOR IMPROVED WELFARE
- MANURE DRYING SYSTEM
- EGG COLLECTION BY ELEVATORS OR LIFT SYSTEM
- FEEDING SYSTEM BY TRAVELLING FEEDERS OR CHAIN

WIDE CHOICE OF COLONY CONFIGURATIONS

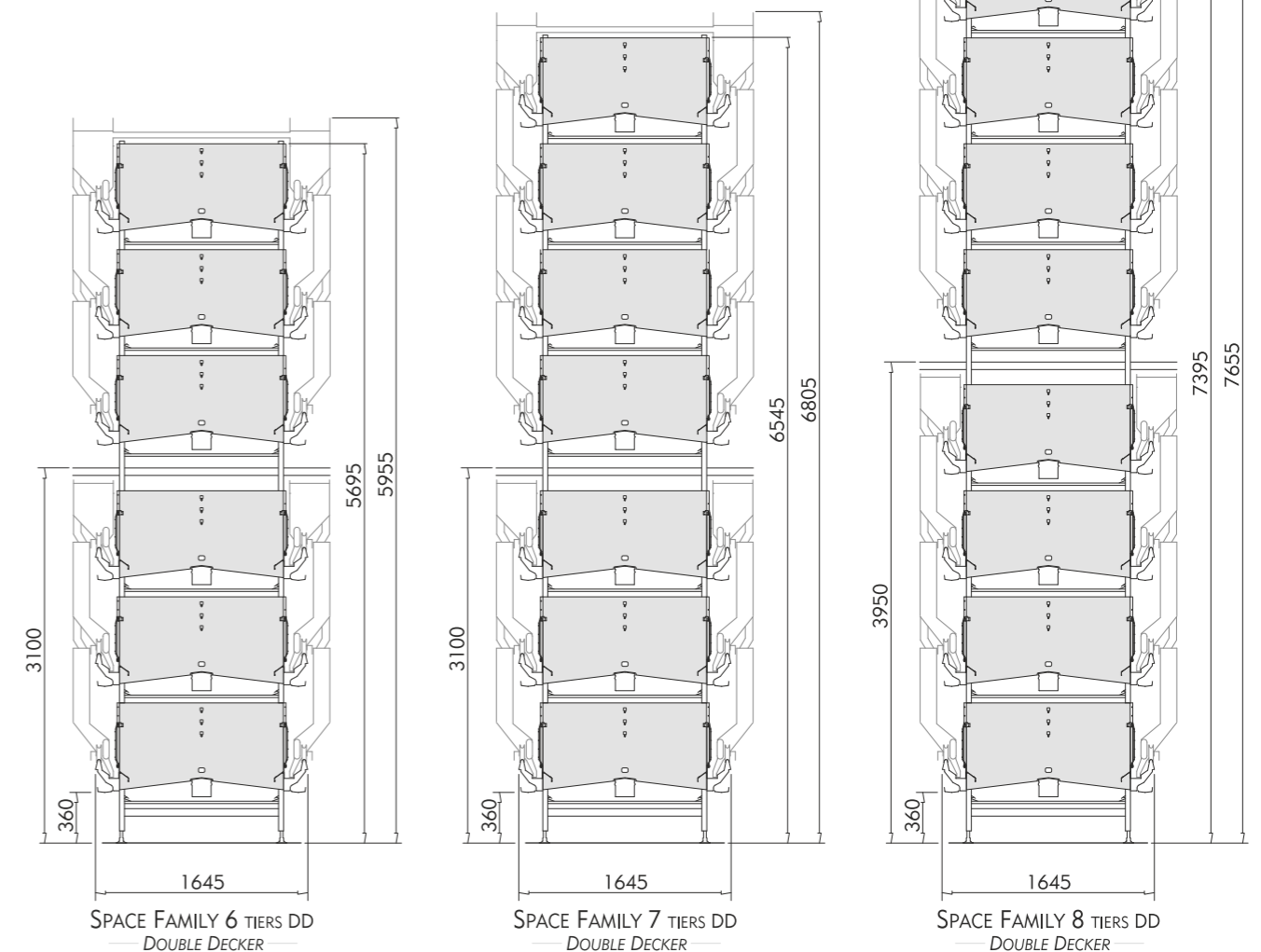
- AVAILABLE IN MULTI TIER CONFIGURATIONS
- WITH OR WITHOUT INTERMEDIATE CATWALK
- WITH OR WITHOUT AIR TUBE



H1 / H2 = MAX / MIN HEIGHT OF THE COLONY mm. 695 / 615

HEIGHT TIER TO TIER mm. 850

Heights are subject to decrease to MAX -30 mm. due to feet adjustment



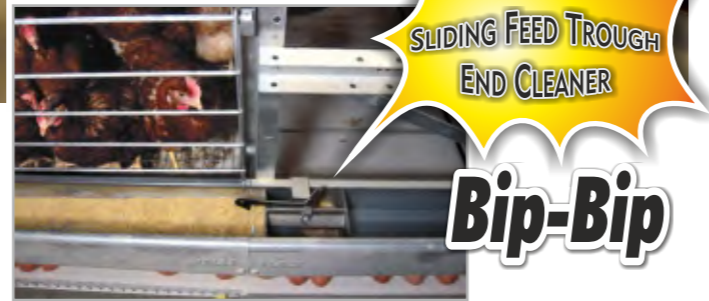
VALLI TRAVELLING FEED DISTRIBUTION FOR ALL LAYING SYSTEM:

Patented and unique, it consists of independent hoppers running, each one with two wheels on the round outer profile of the feed troughs. A **shuttle feed dispenser**, running on the flat bottom of the feed trough and operated by the travelling hopper, cleans the feed trough, pushes the remaining feed towards the birds and restores the feed level, as preset by the farmer, in a very even strip. The hoppers and the filling system are designed to avoid feed bridging or feed separation.

SHUTTLE FEED DISPENSER: · FEED LEVEL SETTING

The setting of the feed level is done by adjusting two screws, one at each end of the shuttle dispenser.

Feed control: the feeders are operated by a time clock with the possibility of setting the start times and the parking time at the far end of the cages thus making the feed quantity control very flexible.



ADVANTAGES OF VALLI TRAVELLING FEED HOPPERS:

- Each hoppers follows precisely the profile of the feed trough on which it runs: the distribution is very accurate.
- The feed distribution will be very accurate also after many years of use as the Valli feed trough will always be straight.
- All the birds eat the same feed in quantity and quality not depending on feed selection and consumption during distribution.
- No spots of pilling-up or stale feed as the feed is moved at each hopper run.
- The travelling hoppers require very low power consumption and low maintenance.
- The travelling hoppers produce no wear on the feed troughs.

One motor-gearbox 0.25 Kw (1/3 HP) drives all the hoppers on cages up to 3 tiers. For higher cages 2 motors are used. The motor-gearbox drives the hoppers by mean of a pulley and a polypropylene coated cable with no need of electric cable running together with the hoppers to bring the power. Optional safety control (watch-dog) based on detection of idler pulley's revolutions can be provided in the control panel.

Travelling feed hoppers

can be used also on cage systems with one or more intermediate catwalks. The number of drive motors and cable depends on the number of intermediate catwalks.



STANDARD SPEED OF TRAVELLING FEED HOPPER:
6 - 7 MTS/MIN (19.5 - 23 FT/MIN)

FLAT CHAIN FEEDING FOR ALL LAYING SYSTEM:

It is installed in the same cage system with the same feed trough (with no need of wear-plates on the joints).

The feed level is adjusted by a graded shutter.

One feed hopper per circuit is standard, but on long cage rows, each circuit can be provided with two hoppers to split the chain circuit in two and to reduce the chain running time and feed selection. Each hopper has a feed return wheel to better control the returning feed.

On the control panel it is possible to set starting times, running time and starting sequence of the drive motors of each tier to reduce electrical loads and to match the capacity of the filling augers.



THE CHAIN-SPEED CAN BE 12-18 MTS/MIN (40-60 FT/MIN). EACH CIRCUIT IS DRIVEN BY A MOTOR GEARBOX RESPECTIVELY TO THE CHAIN- SPEED OF 0.75-1.1 Kw (1-1.5 HP).



FLEX-SPIRAL FEEDERS AS CONTINUOUS ADDITIONAL FEED TROUGH AND LITTER DISTRIBUTION:

VALLI offers a central feeding system in two options:

Combined with FLAT CHAIN feeding system outside: continuous open trough with spiral.

Combined with FLAT CHAIN or TRAVELLING HOPPERS feeding systems outside: the open continuous trough is automatically filled by a feeding tube with spiral on top.



VALLI EGG COLLECTION FOR ALL LAYING SYSTEM:

1. Eggs from the cages: roll at low speed, over a floating wire-mesh floor with slope 6°, 6.5° or 7°, onto the collecting belts without crowding into spots. At the side of the cages are guided by a plastic frame and at the cage up-right by a plastic deflector in order to eliminate all retaining points.



2. Egg transport belts - available 100 or 140 mm wide (4" or 5.5"): in woven polypropylene are standard. Reinforced polypropylene is used for very long cage systems. The belts are not sensitive to temperature or humidity variations and should not need retensioning once set.



3. Cleaning of belts: the surface transporting the eggs is continuously cleaned on the return by one scraper every junction of the egg channel.



4. Optional Egg Protector Wire: in addition to the guard provided at the back of the feed trough, eggs can be protected from pecking with an effective but non-dangerous electric wire. The wires are connected at one end to a switch-box where it is possible to switch-off each single wire or one complete cage bank making it possible to detect an eventual earth-leaking caused for example by a dead bird.

5. Optional Egg Saver: the eggs are stopped just before reaching the egg collection channel to reduce the speed and avoid collisions with eggs which are already on belts. The wires are operated from the end by a geared motor with adjustable microswitches to set lower and higher position of the wires. The system is controlled by a time clock and a timer and it is possible to set the number and duration of operations.

6. Egg Belt Drive: consisting of one drive roller coated with vulcanized non-wearing rubber with a diameter of more than 100 mm (4") and one pressure-roller in aluminium. The two rollers turn on dust-protected ball bearing, are spring loaded and synchronized by two plastic gear wheels for positive grip on the belt. The pressure roller is scraper-cleaned.

7. Autocleaning Return Roller mounted on a frame that is adjustable in horizontal and vertical position.

EGG COLLECTION LIFT SYSTEM:

The system is very simple and ensures very clean eggs thanks to only one transfer: from the transport belts directly onto the cross conveyor.

The rod conveyor is lifted and accurately positioned, by one lift column on every row of cages plus one or more additional columns.

The accuracy of the conveyor level is ensured by: sturdy lifting roller chain, precise microswitches, perfect synchronization controlled by a brake motor on the master column.



One geared motor Kw 0.2 each cage bank, moving up and down with the cross conveyor, meshes with a drive gear wheel provided at every tier, and drives two egg transport belts simultaneously at a standard speed of 3.5 mts/min (11.5 ft/min).

The system is very reliable and this design has been working successfully for 20 years.

The electric panel controls automatically, with a revolution counter (to be set according to the house length) the egg collection sequence tier by tier and the return to parking position.

Signal lamps indicate on the front of panel the position of the conveyor.

An optional frequency converter, provided with override switch, controls the speed of belts from 1.5 to 6 mts/min (5-20 ft/min) and can be manually operated with a potentiometer or automatically operated by an egg counting system.



STANDARD SPEED OF EGG BELT: 3.5 MTS/MIN (11.5 FT/MIN)
WITH FREQUENCY CONVERTER: FROM 1.5 TO 6 MTS/MIN (5-19.5 FT/MIN)



Egg Transfer



Wall Closing Slide for Egg Conveyor



EGG CONVEYORS:

Valli supplies top-quality rod curve conveyors to meet customer needs with elbows from 7 to 180° and up or down slopes up to 28 degrees depending on conveyor type.

To suit the capacity of the farm packer or in-line grading machine the width of conveyor can range from 250 to 1000 mm (10-40 inch).

On straight conveyors without telescopic units eggs can be transported for 200 mts without intermediate transfers.

Galvanized conveyor rods are standard but options of epoxy-coated or plastic coated rods are available.



AVAILABLE WIDTHS OF CONVEYORS ARE MM:
250 - 350 - 500 - 750 - 1000

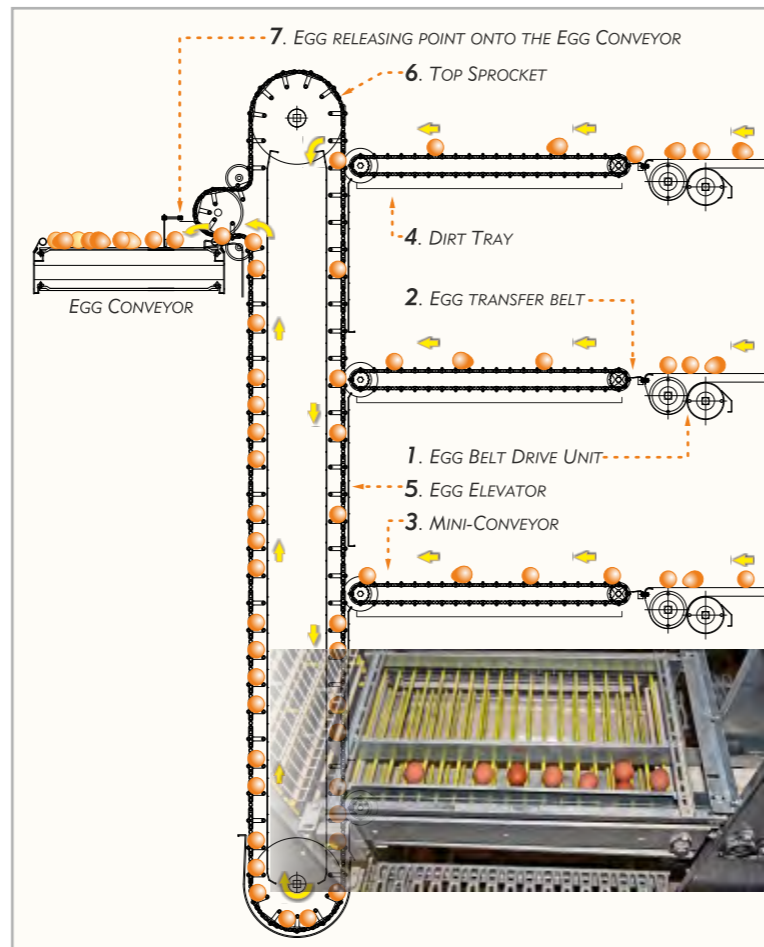
EGG COLLECTION LAYING

EGG ELEVATOR WITH MINI CONVEYORS:

Mini rod conveyors (feeding conveyors) receive eggs from transport belts separating soft shells, and steering the eggs into separate tracks and synchronizing transfer onto the Elevator carriers. Elevator carriers, designed for very gentle egg handling, bring eggs down to floor level and then up to table or conveyor level where they steer around a curved grid for a gentle release. The level of the conveyor can be pre-set at Customer wish. On Elevators with collecting table it is possible to further up-grade by moving the egg release unit up and installing a cross conveyor. Standard speed of egg transport belt is 1.2 mts/min (4 ft/min).



The drive unit of egg transport belts and the Elevators have separate geared motors. An optional frequency converter, provided with override switch, controls the speed of belts from 0.6 to 2 mts/min (2-6 ft/min) and can be manually operated with a potentiometer or automatically operated by an egg counting system. The speed of Elevators is fixed.



EGG COLLECTION ONTO TABLE

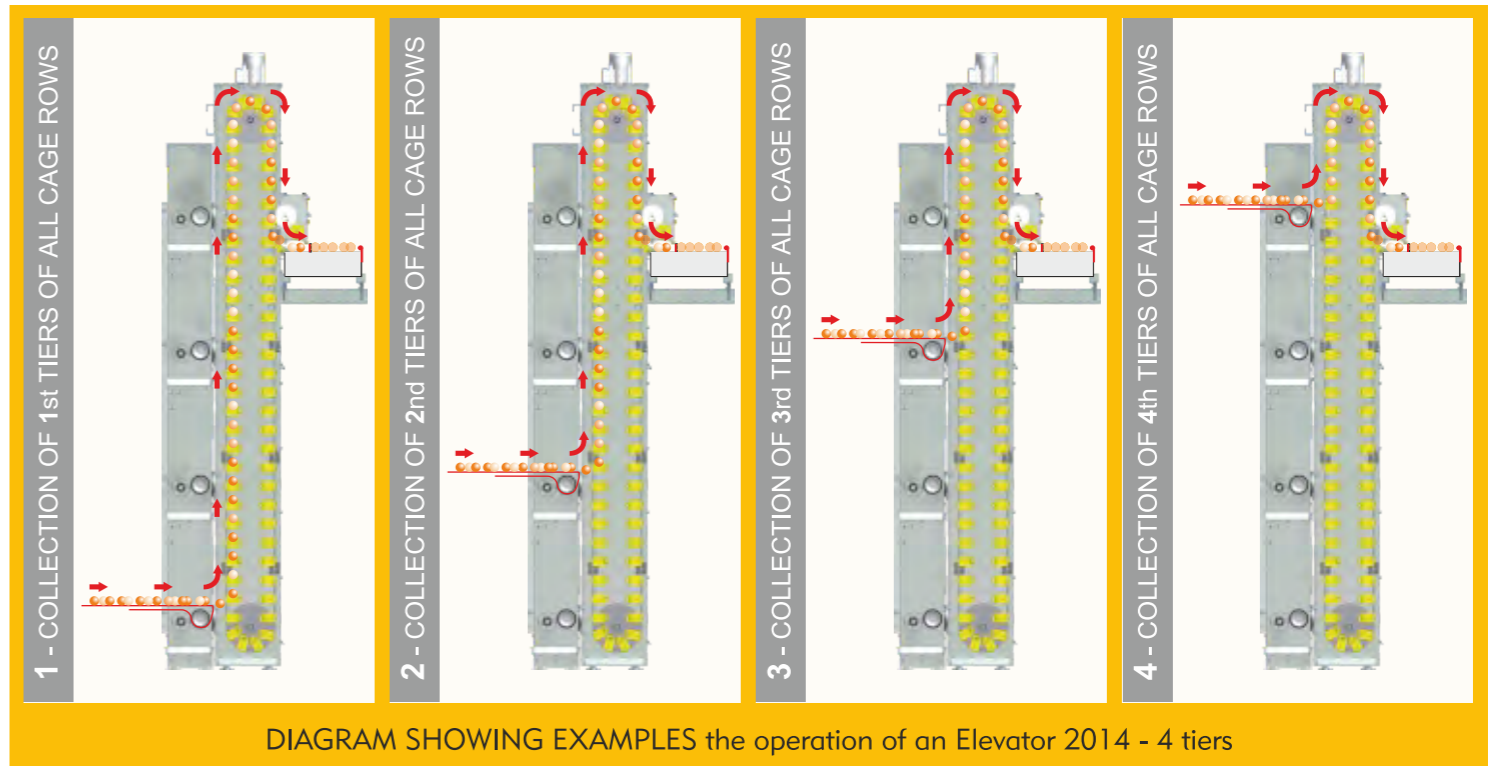
STANDARD SPEED OF EGG BELT: 1.2 MTS/MIN (4 FT/MIN)
 WITH FREQUENCY CONVERTER: FROM 0.6 TO 2 MTS/MIN (2 TO 6.5 FT/MIN)



EGG ELEVATOR 2014:

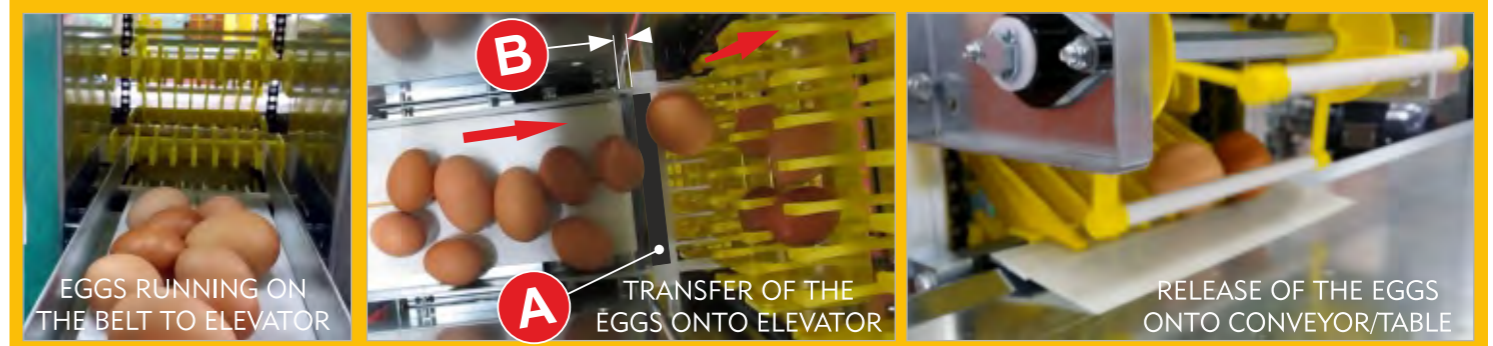
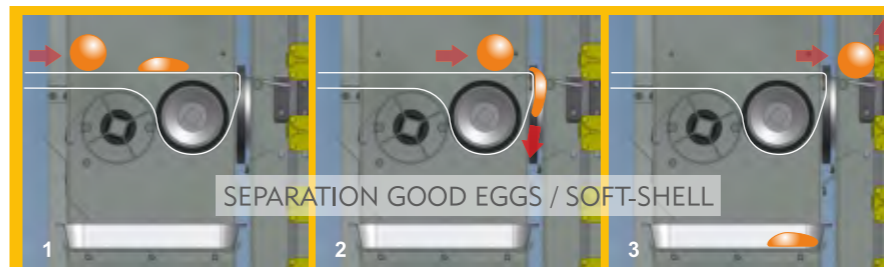
without Mini Conveyors

The Elevator System 2014 receives and collects eggs directly from the belts, tier by tier and without synchronization as is the case for the Lift System. The eggs are then accepted by a series of concave "combs" that run from the bottom toward the top of the rear part, rotate at the top and then descend and download the eggs, assisted by an ejector, at the front on a fixed table or rod conveyor in the same way as an Elevator System.



STANDARD SPEED OF EGG BELT: 3.2 MTS/MIN (10,5 FT/MIN)
 WITH FREQUENCY CONVERTER: FROM 1 TO 6 MTS/MIN (3.3 TO 20 FT/MIN)

The eggs transported from the belt linger before discharging on the ribbon of a special soft adhesive strip (A) of the transfer (white comb). The temporary "slowdown" of eggs is expected to not allow the eggs collide, in the race against the combs yellow elevator. The soft-shelled eggs are discharged into the slot (B) between the belt and the soft adhesive strip on the transfer in a special basin below.



MANURE DRYING

AIR BLOWING MIXING UNIT:

Air blowing in cages with air duct means: Better egg production due to improved environment in every spot of the house as the air is blown directly from the back of every cage.

Improved manure drying due to the wind effect on the manure that is on the cleaning belts.

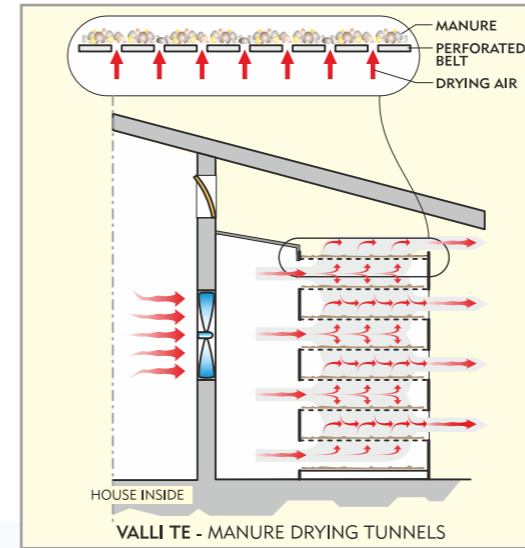
The large section of the air duct combined plus the air blowers custom designed and set according to number of birds and length of the cage banks with consequent needed pressure, make the air blowing system most efficient in terms of cubic mts x Kwh.

Separate shutters for external or internal air intake or for mixing both in the desired proportion: the 2 shutters can be manually operated, can be operated by ON/OFF servomotors (no possibility of air mixing) or by proportional servomotors controlled via house computer or via a small dedicated controller.



VALLI TE : EXTERNAL DRYER FOR MANURE ON PERFORATED BELTS

The VALLI TE Manure Drying Tunnel is available from 4 to 16 tiers x 1.60 mts wide. The manure is dried by the exhaust air from the shed that is pushed or pulled through the manure laying on perforated belts. The thickness of manure layer is automatically determined by synchronizing the speed of the tunnel and the one of the cleaning belts into the shed. The VALLI TE also reduces the emission rates.



AIR BLOWING MIXING UNIT WITH AUTOMATIC FILTER CLEANING MOD S3 WITH ROTATING BRUSHES SYSTEM



AIR BLOWING with HEAT EXCHANGER



EXTERNAL COMPACT DRYER for MANURE:

To heat 100% fresh outside air, thus resulting in an optimal climate in the shed and maximum drying effect on the manure to up to 75% dry matter. The fresh outside air is heated by the exhausted shed air by mean of heat exchanging tubes.

Available from 2 to 6 tiers. The manure is dried by the exhaust air of the shed that is pushed or pulled through the manure laying on perforated metal paddle conveyor. This drying unit can be placed along the long side of the house or outside at the back of the house. The dryer also reduces the emission rates.

BROILER



VALLI EXPERIENCE ...

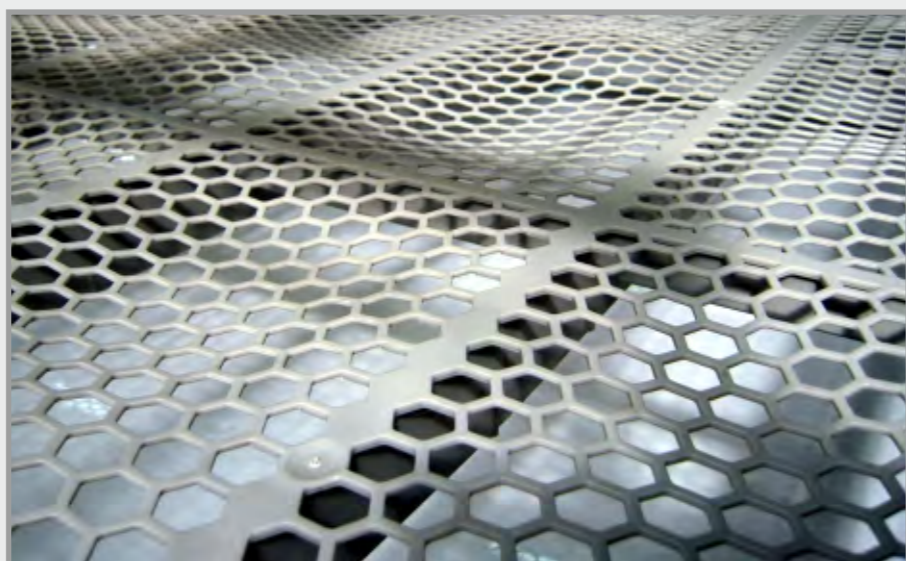


VALLI Broiler cages - 1968

Our origins in the poultry industry started with the production of **BROILER CAGE SYSTEMS** for the Italian Poultry Industry.

Soon after we entered the design and production of Layer and Pullet cage systems as well as of the related equipment.

The **BROILER BEST** offers the advanced technical solutions, the efficiency, quality and reliability for which **VALLI** products are known.



• INNOVATIVE PLASTIC COMFY FLOORING WITH HONEY-COMB SHAPED MESH

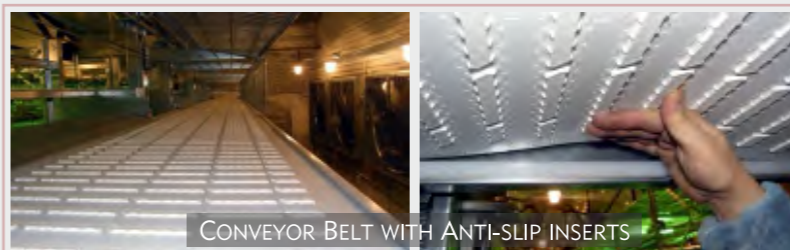
PICTURES OF BROILER BEST



TRANSPORTATION OF BROILERS ON CONVEYOR BELT



BROILER CONVEYOR KART



CONVEYOR BELT WITH ANTI-SLIP INSERTS



EASY ACCESS TO CONVEYOR BELT



DRINKERS

COMFY FLOORING



INSIDE THE COLONY

TECHNICAL DATA

COLONY SYSTEM FEATURES

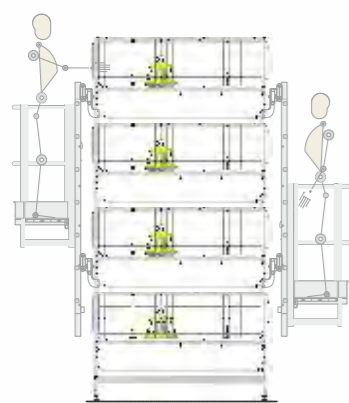
VALLI BROILER BEST COLONY SYSTEM FOR:

- Optimal hygienic conditions for better health and lower mortality.
- Ideal for good and efficient ventilation.
- Higher stocking density.
- Energy savings due to higher stocking density.
- More flocks per year compared with floor systems.
- Even growth due to smaller groups.

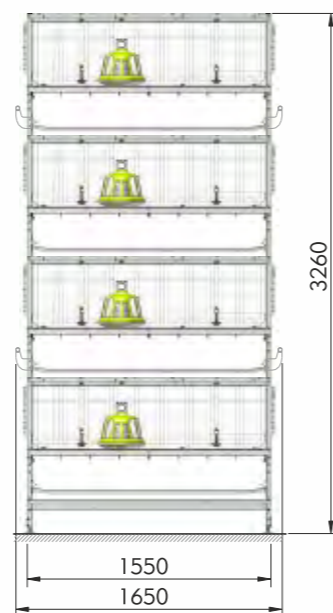
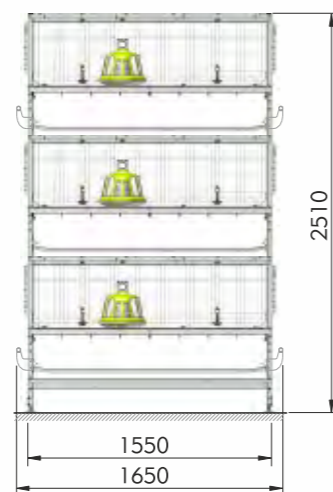
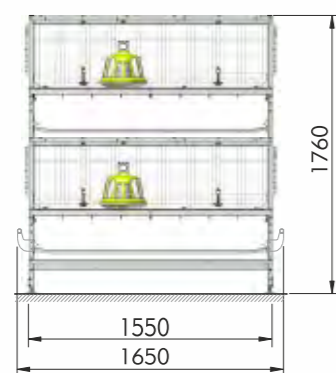


BROILER BEST MODELS		BrB - 2	BrB - 3	BrB - 4
COLONY SIZE	mm.	1500 x 2990	1500 x 2990	1500 x 2990
COLONY SURFACE	cm ²	44.850	44.850	44.850
LENGTH OF MODULAR SECTION	mm.	2991 c/c	2991 c/c	2991 c/c
HEIGHT TIER TO TIER	mm.	750	750	750
OVERALL WIDTH WITHOUT RAILS	mm.	1550	1550	1550
OVERALL WIDTH WITH RAILS	mm.	1650	1650	1650
OVERALL HEIGHT	mm.	1760	2510	3260
SUGGESTED MAX CAPACITY PER MODULAR SECTION (225 Kg. per Colony)	Kg.	400	600	800

Heights are subject to decrease to MAX -30 mm. due to feet adjustment



HAND PUSHED INSPECTION TROLLEYS ARE AVAILABLE ON 3RD AND 4TH TIER FOR AN IMPROVING MANAGEMENT

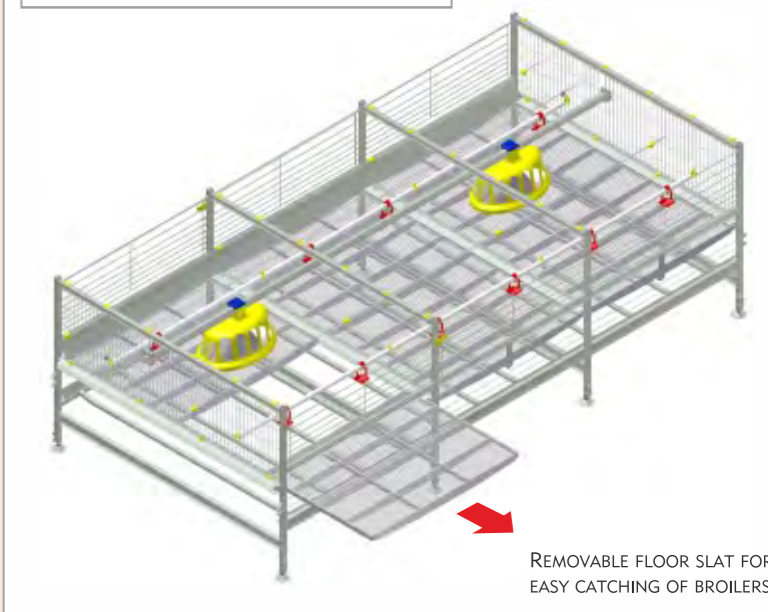


MODELS

- INNOVATIVE PLASTIC COMFY FLOORING with HONEY-COMB SHAPED MESH resulting less dirt retention and softer touch for better meat quality.
- Easy removable floor.
- Wire mesh partitions to improve ventilation, heating and lighting.
- Simple and effective design for easy installation.
- Sturdy construction and high standard of material and galvanization typical of all Valli products.
- Automatic pan feeding system with adjustment in height and feed quantity.
- Automatic drinking system, adjustable in height, by nipples and drip cups.
- Wide sliding doors for easy loading of chicks and easy access to the colony area.
- Automatic broiler collection with lift system and transportation of birds on conveyor to a single point.
- Optional lighting system inside the colonies.
- Optional inspection trolley.



INNOVATIVE PLASTIC COMFY FLOORING WITH HONEY-COMB SHAPED MESH



ACCESSORIES

IMPORTANT ACCESSORIES TO IMPROVE THE HOUSE MANAGEMENT:

INTERMEDIATE CATWALK:

Intermediate Catwalks for cages 6 tiers and more for easy inspection of the birds, easy loading and depopulation and easy maintenance: in perforated zinc-coated and roll-formed sheet steel. Different thickness of metal and different perforation patterns are available for eventual running of trolleys.

Perforation covers about 50% of the total surface for good house ventilation.

The roll-formed profile cut at length and with pre-punched holes plus cross supports with pre-punched holes standing and fixed on the cage up-rights make the installation easy and fast with no need of cutting, drilling or welding. Only the perimeter support on the walls of the house must be provided and installed locally. Also kits for stair construction from the ground floor to the catwalk are available.

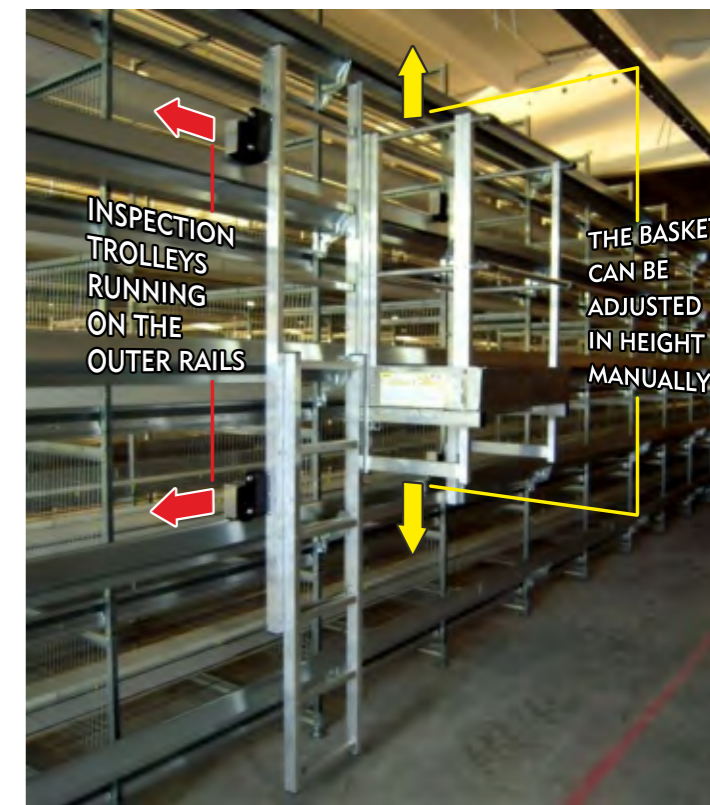


INSPECTION TROLLEY:

Inspection Trolleys running on the outer rails of the feed troughs to inspect the higher tiers of the cages very easily and safely. The platform is provided of safety guards and ladder for access from the ground floor.

The basket can be adjusted in height manually.

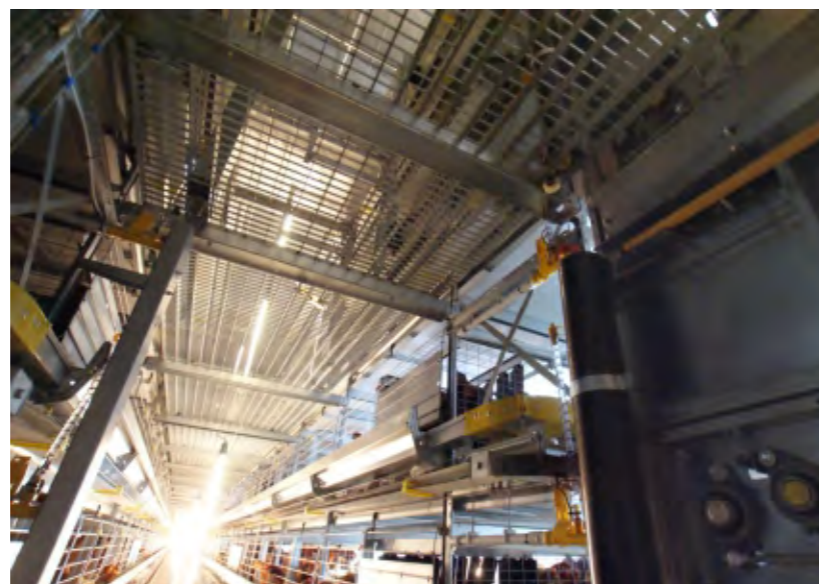
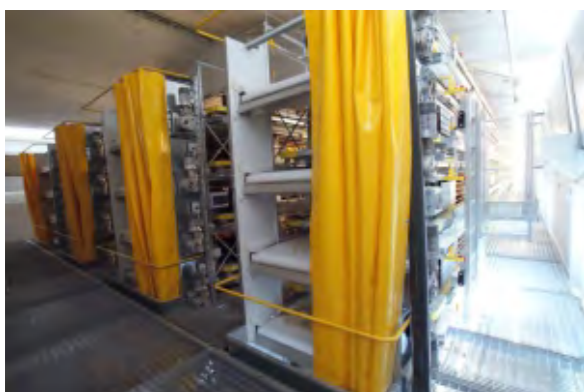
The inspection trolleys are available in hand-push version only.



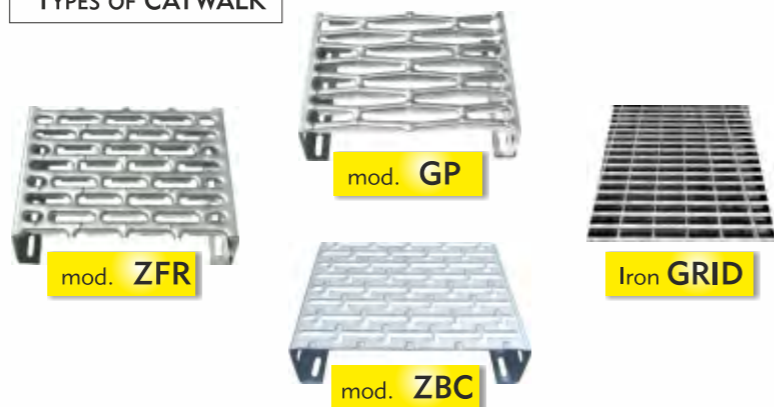
THE TROLLEYS RUNS ON THE SELF-SUPPORTING FEED TROUGHS

COVERS:

Modular removable covers for channel of manure cross conveyor.



TYPES OF CATWALK



SERVICE TROLLEY:

Portable Trolleys running on the outer rails of the feed troughs to carry maintenance tools or instruments for house management (example for artificial insemination on cages for parents).



CROSS BELT CONVEYORS AND ELEVATORS FOR MANURE:

The high speed (75 mts/min = 246 ft/min) cross belt conveyor, 600 mm (2ft) wide, makes the cleaning operations very fast making it possible in most cases to clean all the belt of the cages simultaneously. Woven belts, PVC coated, 2 or 2.5 mm thick depending on conveyor length are standard; for very severe climate conditions we supply on request special



belts suitable for operation in -30° and -40° C temperature conditions. The drive roller dia 220 mm (8.5 inch), is self-powered as the oil-lubricated geared motor is built inside and, thanks to a protection IP 66/67 and to a special lubricating oil, can be installed outdoor without weather protection. The control panel, in addition to the thermal protection built in the motor, features a motorprotection switch and a safety control system (watch-dog) based on the detection of the revolutions of the idler roller.



MOVABLE MANURE CONVEYOR



CONVEYORS FOR MANURE STORAGE:

Storage of manure is very important for fermentation at 70°C and maturing of poultry manure in order to be used as good fertilizer. In certain cases it is necessary a long storage period due to very severe winter conditions. Valli can supply bi-directional conveyors, automatically or manually transporting the manure to all points of the store to increase its capacity. Also manure spreaders are available when capacity increase is not relevant.



THE BELT-SPEED IS 75 MTS/MIN (246 FT/MIN)

CLIMATE CONTROL:

Ventilation systems are custom designed according to local climate conditions and house design and specifications and the first priority is to supply high quality components such as:

- Extractors fans in different sizes for cross or tunnel ventilation,
- Light protection panels for extraction panels,
- Chimney fans for winter ventilation in cold climate conditions,
- Framed air inlets and continuous air inlets,
- Geared motors or linear actuators with built in limit switches for inlets operation,
- Heaters,
- Internal air circulating fans,
- Evaporative cooling pads and spray coolers on stainless steel pipe,
- Curtains,
- Shutters



FEED STORAGE AND TRANSPORT:

- Galvanized Feed Storage Bins dia. mts. 1.8 - 2.1 - 2.75 - 3.15 capacity from 4 to 50 Cubic mts. with optional mechanical or pneumatic filling, inspection ladder, feed viewer, inspection man-hole.
- Flex augers dia 75 - 90 - 125 mm with plastic tube and plastic elbows.
- Flex augers dia 90 - 125 mm steel tube + hardened steel elbows for feeders filling on cage systems.
- Mechanical feed batch weighers complete with receiving bin.
- Electronic feed batch weighers complete with receiving bin.
- Silo weighing systems by cells.



WATER SUPPLY SYSTEM:

- Autocleaning water filter,
- Adjustable pressure reducer valve,
- Water medicator and water meter.



LIGHTING SYSTEM:

- Ceiling lamps with light diffuser and power connection cable,
- Ceiling lamps with light diffuser and power connection curled cable for light lifting system,
- Low consumption fluorescent bulbs 5-7-9 W.,
- Dimmable incandescent bulbs 40-60 W.,
- Complete Light Lifting Systems designed according to no. of tiers, of cage system in order to distribute the light at equal intensity, to the birds of all tiers and optimize egg production on all tiers,
- High frequency light tube for vertical mounting. LED systems.



LOADING AND DELIVERY:

All parts and components of VALLI equipment (except the PVC manure drying ducts) are packed with the best care in strong pallets. Some of the pallets are reinforced and can be stacked one on top of the other in order to grant safety and minimum space requirements. Each pallet is wrapped with a thick nylon foil so that goods are protected before and during transport to their destination, as well as while they are in stock at the farm premises. The weight of each pallet is never above 1500 Kgs.

Electrical control panels and all fragile materials are packed into wooden crates. Each pallet and/or box is clearly marked by a sticker so that it can be easily identified making use of the Packing List which is provided with the goods and delivered to the Customer.



SERVICES:

"Valli" provides not only equipment, but also a complete line of services such as:

Drawings and Layout Projects, Technical and Know How assistance before during and after installation of the equipment, Supervision and/or Full Installation Teams, Supply of Spare Parts, Shipping and Freight Forwarding.



CONTROLS

ELECTRIC PANELS, AUTOMATION AND CONTROLS:

Electric panels and wiring diagrams are designed by professional people according to our long experience and to the quality standards and to Safety standards. All components are from high qualified producers. For Canadian or USA market, electric panels with CSA or UL certified components can be optionally supplied.

All electric panels are delivered complete of functional and wiring diagrams to ease the installer work. Functional and wiring diagrams and all relevant information are filed and available for designing future modifications or expansions or simply for long-distance help in problem solving.

Controls and House Computers are specifically designed for rearing and laying units to control and survey all or some, depending on the model, of the following functions:

VENTILATION

Based on house temperature, outside temperature, age and weight of the birds, the house computer calculates the amount of fresh air needed and controls the number of fans or their speed.

It is possible to control fans in 2 groups in 2 different modes; example ridge fans for winter ventilation in variable speed and gable end fans for summer ventilation or variable speed fans and in steps by ON/OFF fans.

LIGHTING

In order to optimise light programs and obtain maximum results in terms of feed consumption, egg production and egg quality, the house computer controls time and duration of light periods and light dimmers with dusk/dawn simulation.

FEED

Enough feed but fresh: insufficient feeding means drop in production and bodyweight but too much feed means spillage and stale feed into the troughs. So it is important, to know the consumption per feed run and per day in order to adjust the number and the times of feeding and the setting of the feed level out of the feeders into the troughs.

The house computer can display and register feed consumption data received via a mechanical weigher, electronic batch weigher or silo weighing.

WATER

Correct water consumption contributes to achieve good production results. Connecting the house computer to one or more electronic water meter, this displays and register water consumption per house or per row of cages and signals any eventual off-limit of the consumption parameters.

EGG COUNTING

By using individual counters, the house computer can count, display and record egg production. Counting per cage row, per tier or per belt depends on number of counters and on type of egg collectors. Based on number of eggs counted and capacity of the farm packer, the house computer controls, via a frequency controller, the speed of the egg collecting belts in order to optimise the time needed for egg collection.

ALARM SIGNALLING

The house computer detects power failures, off-limit reading of temperatures, water consumption, feed consumption, minimum stock into the bins.

MANAGEMENT

One or more house computers can be connected to a PC where a dedicated software program collects all the data received and display in tables or charts, feed conversion, feed and water ratio, daily growth, mortality, laying percentage, time and duration of minimum and maximum temperatures. With this option, the same person reading the records, can do the remote setting.

AIR INLET

Based on house temperature, outside temperature, calculated amount of ventilation or on negative pressure, the house computer controls the air inlet opening in order to have the optimal air speed in order to avoid drafts or cold air drops.

Depending on computer capacity the air inlets can be controlled in 2 or more separate groups.

HEATING

For maximum energy saving, house computer activates the heating system when the ventilation level is back at the minimum rate in order to reach the target temperature. The heating can be controlled "on/off" or proportionally: in order to heat only where it is necessary the heating can be divided in zones.

COOLING

A full control of the cooling, and not just a "on/off" control based on temperature, is essential. Based on house temperature and R.H. level, the house computers controls the cooling on the basis of the admissible air humidity at certain temperature levels in order to optimize the house environment.

MANURE DRYING

The air mixers or heat exchanger are regulated according to outside temperature and air temperature in the duct. A "dew point" function prevents condensation outside the air ducts.

