

METPLAST INDUSTRIES

Think of poultry, Think of us



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THE TESLA SERIES OF LAYER CAGE

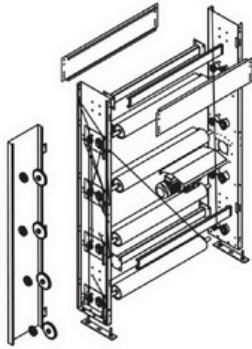


Layer Tesla model of extended height battery cages, provide the luxury of comfort and optimum space to the birds. Tesla series is particularly designed to make birds comfortable in the tropical climate, because it provides more head room for the birds to get fresh air, even at the center of the cage. This economical system is indigenously designed and made in India, considering the efficiency of poultry production. The manure unit consists of complete rubber coated rollers and heavy duty gears and sprockets made of steel with Robust manure start and end kit. It is fitted with 360 degree ball type nipples for optimum supply of drinking water to birds.



Features of Poultry Manure Removal System

- * The solid structure makes a durable design
- * The automatic control can save much time and manpower.
- * The automatic machine is easy to install and maintain.
- * The professional design can clean the manure with the highest speed and keep the house clean.
- * It can ensure the manure is dry to reduce environmental pollution
- * The best after-service can eliminate your worry.



MANURE REMOVAL SYSTEMS

As a designer of complete poultry house systems, Metplast has also developed a wide range of manure removal. Our systems are used worldwide, as a result of their universal application, reasonable pricing, and durability.



Complete range of manure removal and drying systems:

- Cross conveyors for removal of dry manure into a Truck Trolley or manure store.
- Elevating conveyors for conveying manure into a container or manure store.
- Inclinations until 40 degrees realize free entrance into the house.
- Quick supply of customized capacities due to robot technique.
- Automatic belt tensioning for maintenance-free operation.
- Minimum construction parts between and under the belt, hardly any pollution.
- Max. (straight) length of 100 meters possible per drive unit.
- Dust collection belts for a clean area underneath the conveyor.

Manure cross and elevating conveyors.

The 80 cm. wide belts can transport a substantial volume of manure, despite their relatively low speed. To meet high operation requirements, these systems have stable double reinforced belts, rubber vulcanized drive rollers, individually pivoted and spring-loaded pinch rollers, and galvanized belt scrapers with plastic blades. The belts are available in fixed, mobile, or swinging versions.

All parts Produced by High Precision CNC Machines



S FRAME BREEDER CAGE

Frames made from high tensile heavy coated galvanized steel.

Nipple Drinker of 360° degree Side action

End Kit includes Regulator / Water tank

Manure Removal System

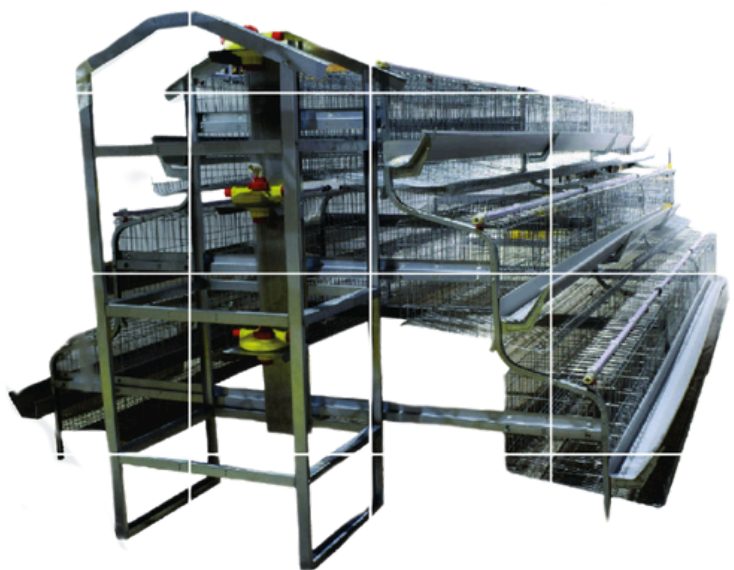
Extended Gap between the tiers for easy cross airflow

Various box options are available

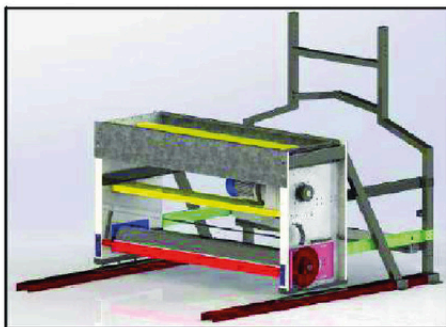
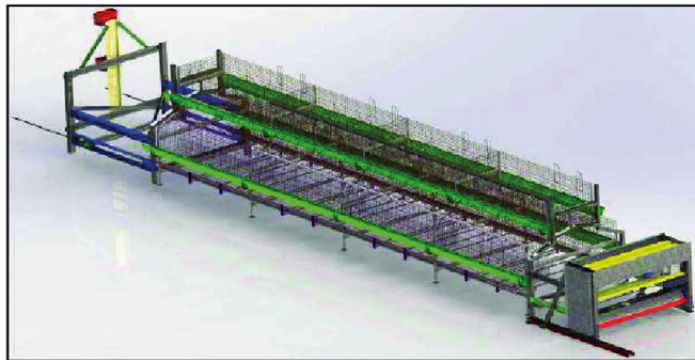
1) 18" x 15" = 4 Birds / Box for Commercial Layer

2) 20" x 15" = 5 Birds / Box for Commercial Layer

3) 18" x 15" = 2 Birds / Box for Breeder



'S' FRAME CAGES (MANURE REMOVAL SYSTEM)



Features of Poultry Manure Removal System

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- The automatic control can save much time and man-power.
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Manure cross and elevating conveyors

The 60 cm. wide belts can transport a substantial volume of manure, despite their relatively low speed. To meet high operation requirements, these systems have stable double-reinforced belts, rubber vulcanized drive rollers, individually pivoted and spring-loaded pinch rollers, and galvanized belt scrapers with plastic blades.

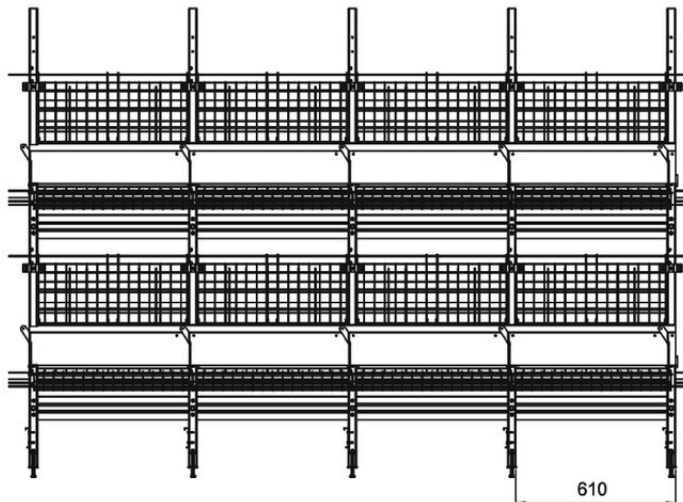
The belts are available in fixed, mobile, or swinging versions.

BREEDER BATTERY CAGE

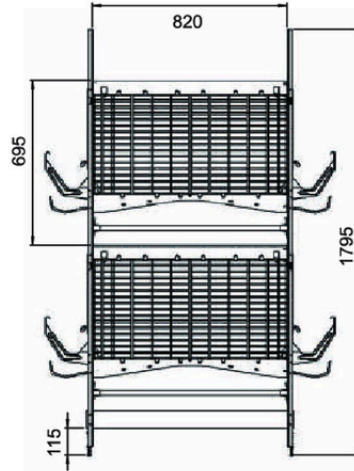


These cages have been created with a feeding trough specially designed to prevent the wastage of feed. The feeder profile is having a longer lip on the outer side, hence making sure that the birds cannot flick the feed outside the feeder. The cage is also fitted with 360-degree ball-type nipples, with side action. The pin is thick enough for the breeders for easy and comfortable pecking to get the optimum amount of water in with minimum pecking. Transmission chains at the manure kit are fitted with a rotating chain tensioner for a longer life of the manure unit.

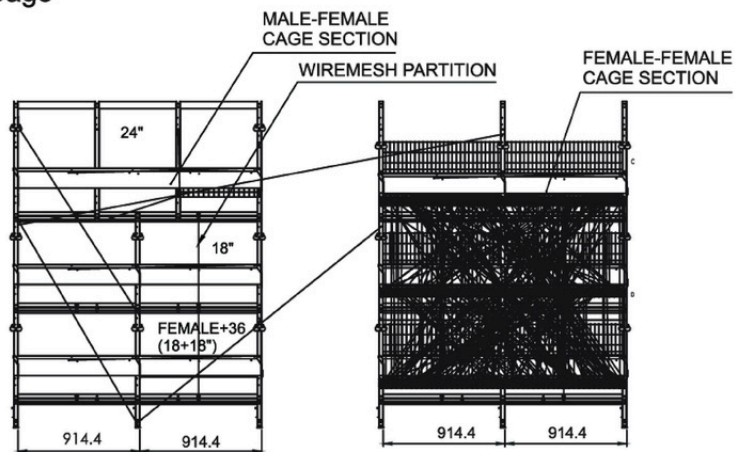
BREEDER BATTERY CAGES



2 Tier Breeder Battery Cage



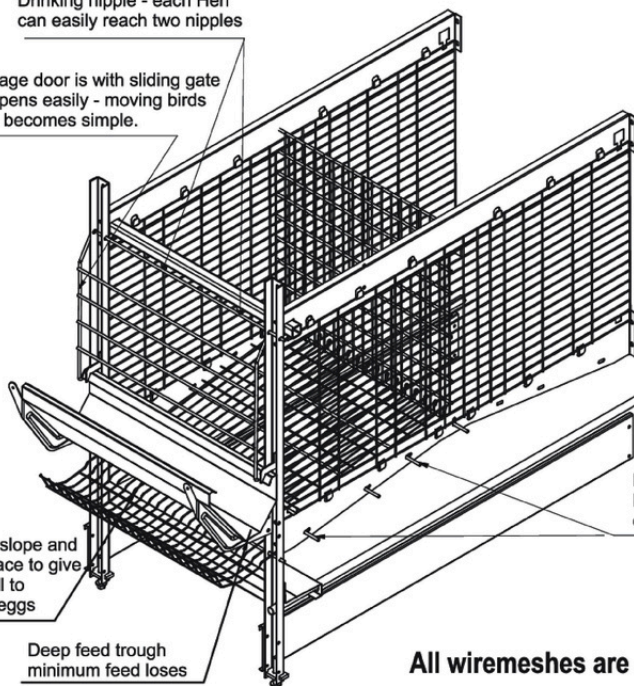
Arrangement of Male - Female Section Layout



3 Tier Breeder Battery Cage

Drinking nipple - each Hen can easily reach two nipples

Entire cage door is with sliding gate which opens easily - moving birds in & out becomes simple.



Bottom slope and wire space to give easy roll to getting eggs

Deep feed trough minimum feed loses

Important Advantages of this Cage box at a glance

Bottom wires can be pullet individually heigh of the wire, as per the suspension effect required

All wiremeshes are in GI coated (Anti-Corrosion)

PULLET BATTERY CAGE

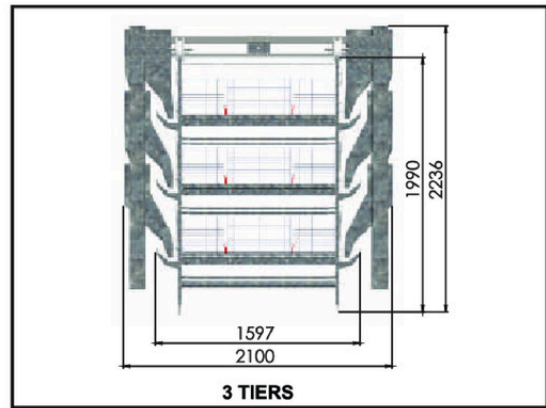


- The feeder opening is precise in control with the opening plates.
This Cage system is available in up to six tiers, as per customer requirement.
It consists of traveling feeding trolleys along with easy feed distribution by dosing mechanism.
The manure belt has complete rubber rollers and a Scraper on the return manure belt.
The cage has ball-type nipple drinkers and sliding/spring doors.
Heavy-coated 450 GSM Galvanized coated components characterize the pullet system.
Robust & heavy fabrication of manure start and end kit.

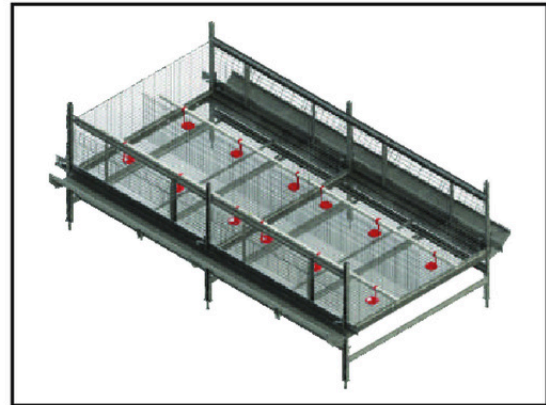
PULLET BATTERY CAGE



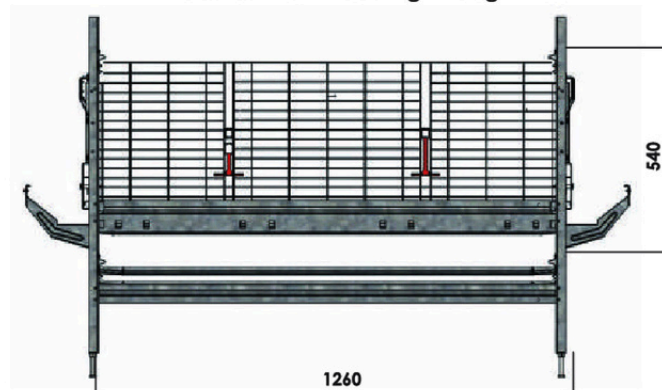
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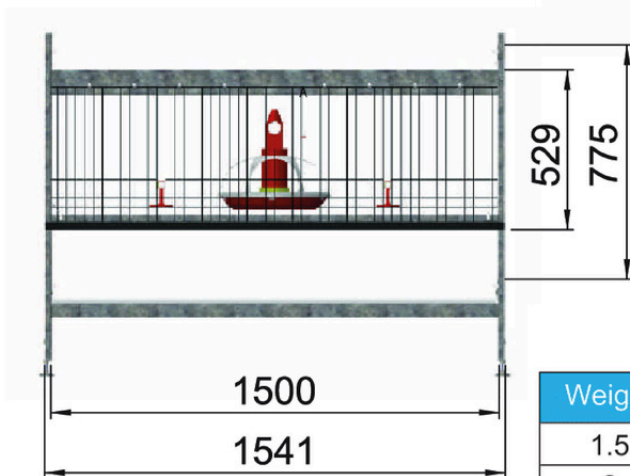
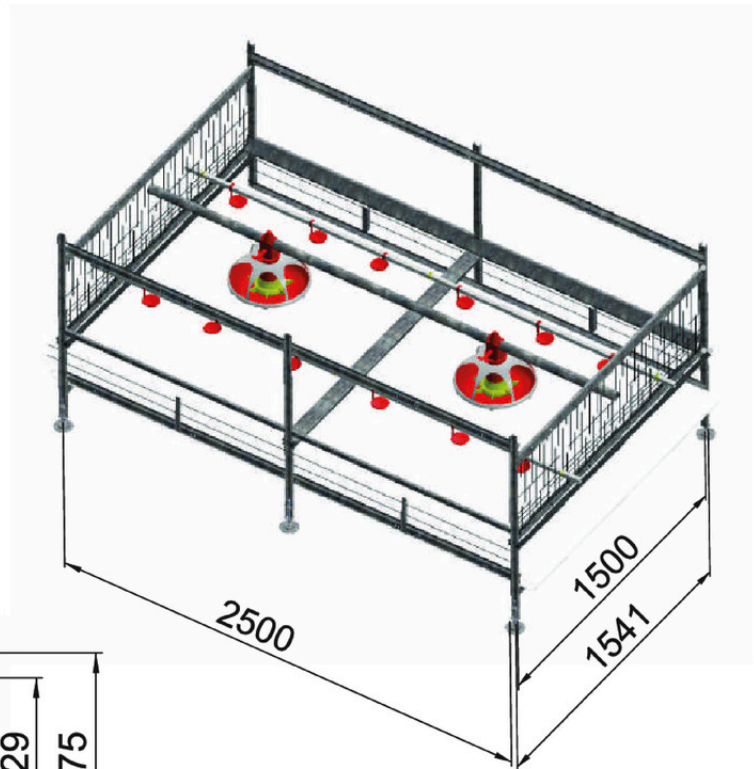
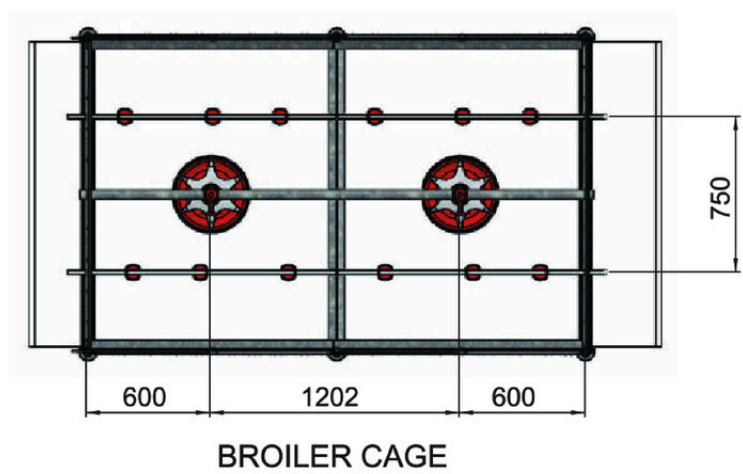
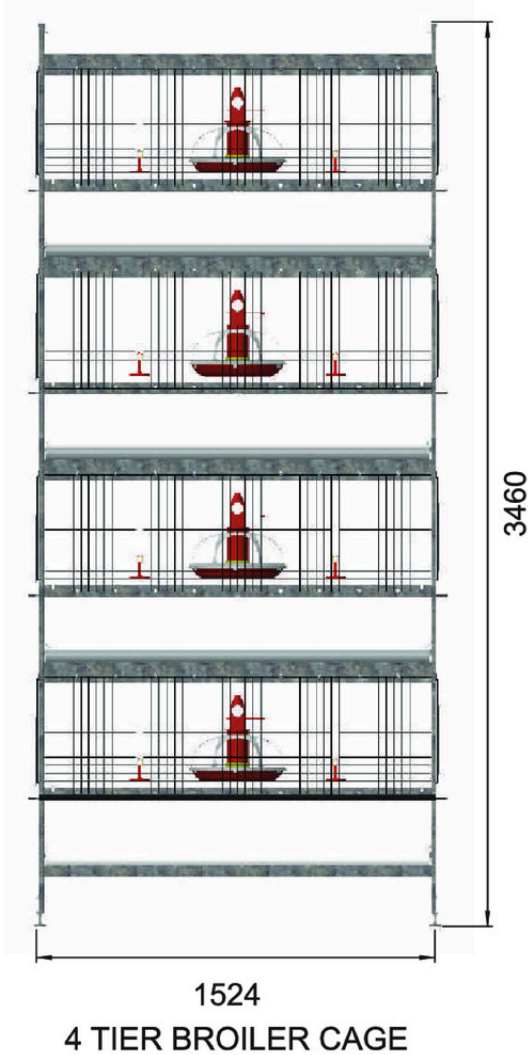
This Cage system is available up to six tiers, as per customer requirement.
It consists of travelling feeding trolleys with hopper.



Galvanized Feeding Trough



BROILER BATTERY CAGE



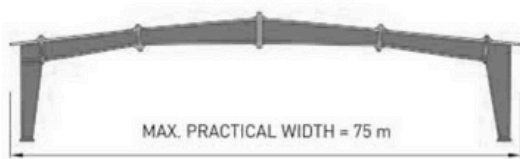
BROILER CAGES "250 X 150"

Weight	Birds	cm ² bird	nipples / section
1.5	110	341 cm ²	12
2	95	393 cm ²	10
2.5	80	465 cm ²	8

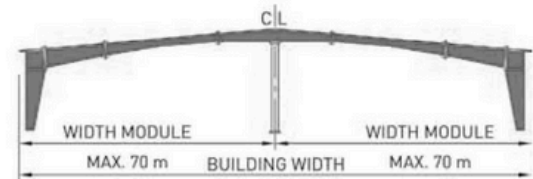
Our broiler cages have been indigenously designed for the tropical climate. The sturdy design, together with heavy zinc-coated components provides maximum life for the Equipment.

The shallow pans provide easy access to feed for the day-old chicks. It has a heavy construction of the start and end kit of the manure unit. The cage also has 360-degree ball-type nipples with a side action, along with a provision for fitting L.E.D lights inside the cages.

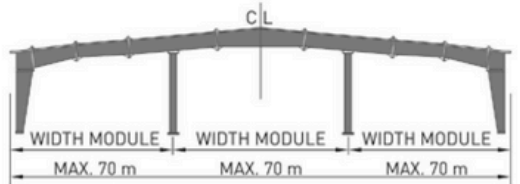
PEB STRUCTURE



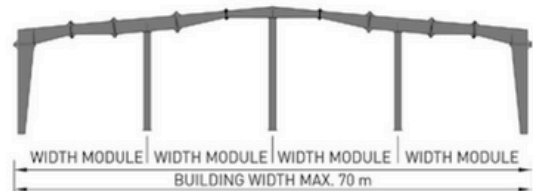
Clear Span



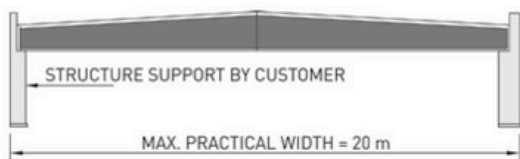
Multi Span



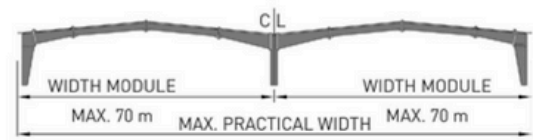
Multi Span



Multi Span



Roof System



Multi Gable

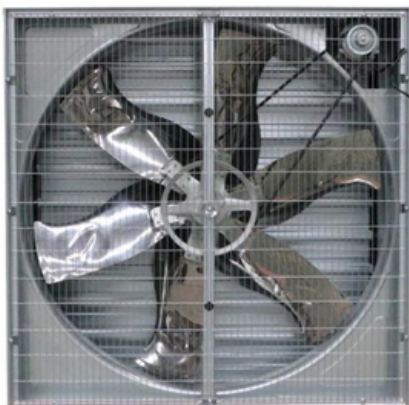
Metplast's systematic approach, combined with the use of high-strength steel, built-up sections optimized through computer-aided design, and lightweight continuous secondary steel sections, ensures a significant reduction in steel weight, cost, and construction time compared to traditional steel construction methods.

Choose Metplast for Efficiency and Excellence.

VENTILATION SYSTEM

MIC

1. Special centrifugal shutter system which opens and closes automatically when the fan works.
2. Centrifugal shutter system and another fitting of shutter made of nylon, high-quality engineering plastics, high strength, and long service life.
3. The centrifugal guide rods are made of steel and then insert molded with nylon fitting installed in the flange, increasing the security, and avoiding the stretching change when the nylon system operates.
4. Blades makes of Stainless Steel
5. The belt pulley is made of high quantity aluminum-magnesium alloy, lightweight, and high strength.
6. High-Quality Hub Sealed bearing for longer.



ENVIRONMENTAL CONTROL SYSTEM

MIDH

Swing Drop:

1. Swing drop hammers which are made of high-quality nylon would guarantee the shutters open and close easily and hence no maintenance.
2. Blades makes of Stainless Steel.
3. The belt pulley is made of high quantity aluminum - magnesium alloy, lightweight, high strengths
4. High-Quality Hub Sealed bearing for longer service life.



COOLING PADS

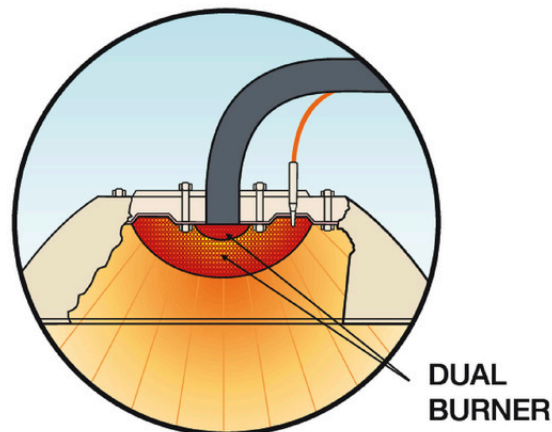


This is our evaporative cooling pad. The cooling pads are widely used in poultry, greens, and workshop. The cooling pad has many advantages:

- 1) Using the new material and the spatial crossing linking technology, high absorbability, high water resistance, anti-mildew, and long service life.
- 2) Large evaporation area, cooling efficiency as high as 80%.
- 3) The product involves a surface active agent, that absorbs water naturally, fast speed of pervasion, and has lasting effectiveness. A piece of water can diffuse in 4-5 seconds. Height of absorbed water: 60-70 mm/5 seconds, 200mm/1.5 hours, can achieve international standards.
- 4) Various sizes of shape: Galvanized sheet, Stainless steel, Aluminum panel, and so on, or up to your need.
- 5) The product does not contain phenol which is an irritant to the skin and the like chemical products. It is harmless and poises less while installation and use. It is safe, energy-saving, environmental protective, economic and durable.

BROODING AND VENTILATION

GAS BROODERS



- ❖ Infrared Heat
- ❖ Dust Filter Not Required
- ❖ Complete Stainless Steel Body
- ❖ Dual Burner Cone
- ❖ Spherical Burner for Uniform Heat
- ❖ Chicks Capacity 1500-2000 chicks

Specification

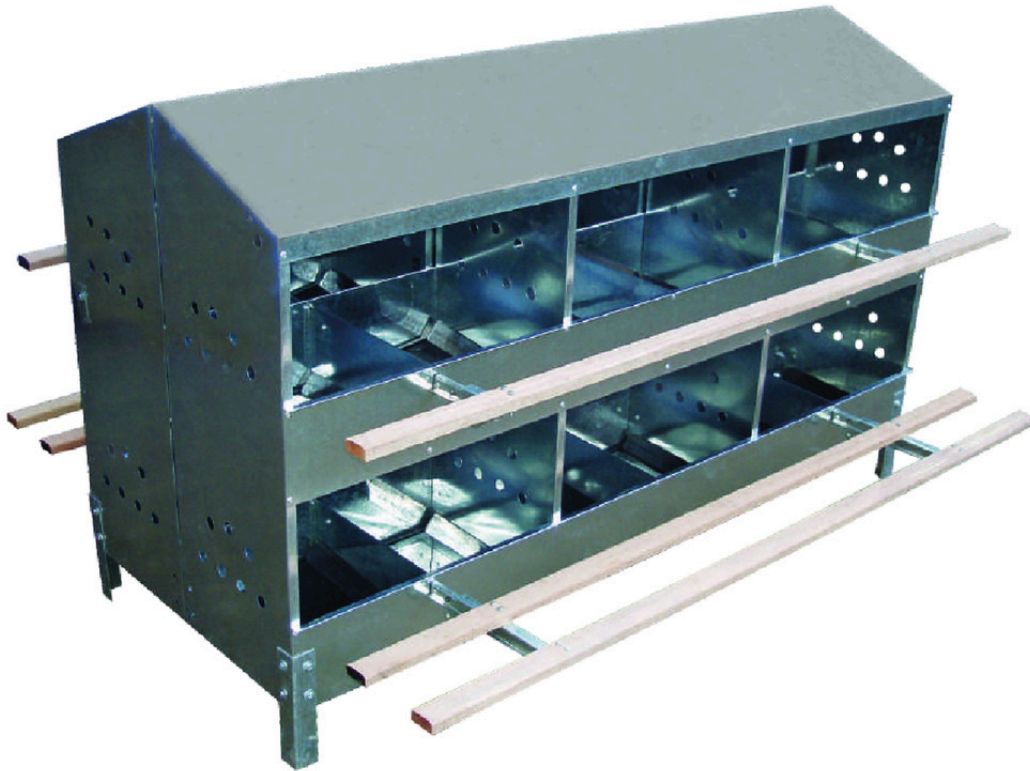
TYPE	GB 2
Gas	Propane
Pressure Mbar	20 - 1400
Capacity kcal/hr	430 - 4300
Consumption Gms/hr	35 - 380

36" VENTILATION FANS



- 1) Grills are plastic coated and a thick diameter wire gauge (2.5mm) is used, and the gap is maintained at 15mm as per international quality standards to avoid human accidents and rats entering into the fan.
- 2) The blades are made of compounded plastic so less chances of bending and hence fewer breaking changes.
- 3) Motor is efficient and complete thermal protection and moisture-proof
- 4) The CFM of a fan is 13,000 and the minimum airflow of 8.5 meters/sec
- 5) Minimum positive air throws of 50ft. When we say 50'then it is 50'length in practically.
- 6) Easy installation & zero maintenance.

NEST BOX



Manufactured of the finest galvanized material available, both the 8 and 12-compartment mechanical nests perfectly illustrate Metplast's sincere commitment to engineering excellence, consistent production, and careful consideration of the growers' actual needs.

THERMO-HYGROMETER & LASER THERMOMETER



DIESEL BROODER



Model	KFE-K125(37KW)	
Heat output	btu	125000
Energy	kerosene , diesel	
Fuel tank	Liter	38
Fuel consumption	liter/hr	3.6
Heating Area	© O	295
Electric power	v/hz	110-240v/50-60hz
Volume Recommended	9000 Cubi Ft	
Approx Area With	6ft Height is 1500 Sq. ft.	
Recommended Number of Chicks / Birds	7500	
N.W/G.W	kg	23.1/26.1
Ignition type	continuous spark ignition	
auto shut-off device, built-in thermostat control		

Model	KFE-K215(63KW)	
Heat output	btu	215000
Energy	kerosene, diesel	
Fuel tank	Liter	50
Fuel consumption	liter/hr	6.1
Heating Area	© O	500
Electric power	v/hz	110-240v/50-60hz
Volume Recommended	17000 Cubi Ft	
Approx Area With	6ft Height is 2833 Sq. ft.	
Recommended Number of Chicks / Birds	14000	
Weight	kg	30
Ignition type	continuous spark ignition	
auto shut-off device, built-in thermostat control		

AUTOMATIC DEBEAKING MACHINE



Features: -

- Fully Automatic Debeaking Machine
- Voltage : 220V + 10%
- Power consumption : 200 to 250 watts
- Temperature of cutting blade 600C - 800c Temperature can be adjusted by operator
- Blade becomes "Red Hot" in less than 30 seconds
- Adjustable holding time for blade from 0-4 seconds to get the optimum debeaking procedure
- Net Weight: 8.5 Kgs
- Package : 2 Pcs/Carton

FEEDER, DRINKER AND ACCESSORIES

AUTOMATIC BELL DRINKER (JUMBO)



Number of Birds per Drinker	60 to 70
Throw Height	45mm
Bowl Dia	280mm
Lip Space	45mm
Type	Automatic

AUTOMATIC BELL DRINKER (STANDARD)



Number of Birds per Drinker	60 to 70
Throw Height	55mm
Bowl Dia	225mm
Lip Space	60mm
Type	Automatic

AUTOMATIC BELL DRINKER (SUPER DELUXE)



Number of Birds per Drinker	60 to 70
Throw Height	55mm
Bowl Dia	220mm
Lip Space	55mm
Type	Automatic

CHICK DRINKER



Number of Chicks per Drinker	50-Chicks
Water Capacity	2.5 to 3Ltr
Top Height	225mm
Bottom Plate Dia	220mm
Lip Space	30mm
Type	Manual
Stand	02-Ways

JUMBO CHICK DRINKER



Number of Chicks per Drinker	50-Chicks
Water Capacity	4 to 4.5Ltr
Top Height	200mm
Bottom Plate Dia	270mm
Lip Space	30mm
Type	Manual
Stand	02-Ways

GROWER DRINKER



Number of Birds per drinker	50-Brids
Water Capacity	7.5 to 8Ltr
Top Height	260mm
Bottom Plate Dia	330mm
Lip Space	45mm
Type	Manual
Stand	02-Ways

CHICK HANGING FEEDER



Capacity of Chicks/Feeder	50-60
Feed Capacity	2.5 to 3Kgs
Cone (top) Dia	170mm
Cone Height	40mm
Pan (bottom) Dia	230mm
Lip Space	40mm
Grill Gap	30mm
Bucket Height	190mm

MANUAL FEEDER (STANDARD)



Capacity of Birds/Feeder	50-60
Feed Capacity	8Kgs
Cone (top) Dia	290mm
Cone Height	100mm
Pan (bottom) Dia	340mm
Lip Space	65mm
Grill Gap	60mm
Bucket Height	280mm

MANUAL FEEDER (JUMBO)



Capacity of Birds/Feeder	50-60
Feed Capacity	10Kgs
Cone (top) Dia	290mm
Cone Height	100mm
Pan (bottom) Dia	360mm
Lip Space	60mm
Grill Gap	60mm
Bucket Height	265mm

FEEDER, DRINKER AND ACCESSORIES

CHICK FEEDING TRAY



Dimension	380mm
Weight	260 Grams
Capacity	100 Chicks
Lip Size	40mm

PARENT MALE FEEDER



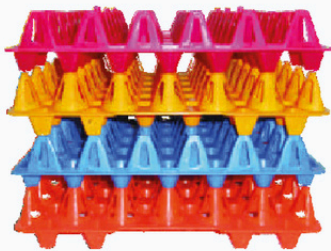
Capacity of birds/Feeder	08-Birds
Pan (bottom) Dia	360mm
Grill Gap Size	70mm

PARENT FEMALE FEEDER



Capacity of birds/Feeder	10-Birds
Pan (bottom) Dia	360mm
Grill Gap Size	45mm

HATCHING EGGS TRAY



Dimension	325x325x40mm
Weight	205 Grams
Capacity	30-Egg

CHICK TRANSPORT BOX



Dimension	2 Compartment 470 x 300 x 155mm
Weight	165 Grams
Capacity	50-60 day old chicks

MANUAL CURTAINS ACCESSORIES

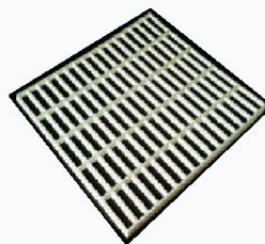


POULTRY HUMIDIFIERS



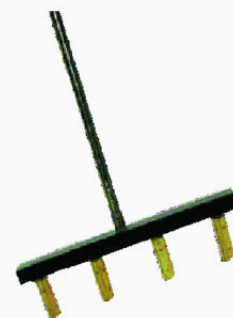
Our range of humidifiers produce excellent results in industries like Poultry, Hatcheries and many more. It helps in providing disinfection in incubators, eggs washing facilities and disinfection of any surfaces that contain microbial contamination.

CAGE MATE



"Cage Mate is so soft that the Breeders are very comfortable on it. This eliminates their leg blister problems and breakage of eggs is also minimized. The opening of the cage Matting is matched with the bottom of the cage, hence the ventilation is maintained and no collection of droppings on the cage mate."

FLAME GUN



Gas fueled flame gun is developed for destroying bacterial, viral, fungal and insect contamination in and around the shed.

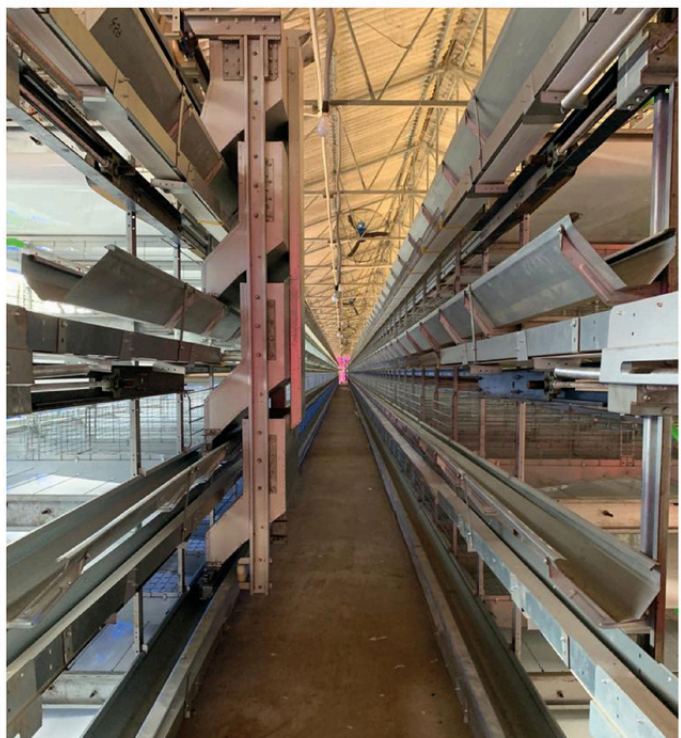
SILO



FOR STORAGE OF BULK, FEED TO CONVEY THE FEED IN THE HOUSE FOR LAYERS CAGES AND BREEDER CAGES AND PAN FEEDING SYSTEM OPTION IS AVAILABLE TO DO SILO FILING VIA A SCREW CONVEYOR AND AUTOMATIC FEED CONVEYING SYSTEM IN THE POULTRY HOUSE THE SILO IS MADE FROM 275 GSM COATING FOR ALL-WEATHER RESISTANCE IT HAS RUST PROOF DESIGN



FEEDER



- BATTERY CAGE
- CONVENTIONAL CAGE
- MANURE HANDLING FOR CAGE
- EGG COLLECTION FOR CAGE
- BROILER EQUIPMENT
- PAN FEEDING SYSTEM


EGG GRADING & PACKING
(MOBA, NETHERLAND)

- DEBEAKER
- VACCINATOR
- THERMOHYGRO
- METER DIESEL HEATER
- MANUAL EQUIPMENT
- FOGGING SYSTEM
- NIPPLE DRINKING SYSTEM

PAS REFORM HATCHERY
AUTOMATION (NETHERLAND)

MOBA

 **Pas Reform
Hatchery Technologies**

 **METPLAST
INDUSTRIES**

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