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Company Profile

For close to 50 years, FDI has offered a full line of poultry equipment ranging from layer and pullet cages and egg conveyance, to specialty systems for research farms, colleges and universities.

As Canada's only full line poultry equipment manufacturer, we have a continued devotion to meet the requirements of our customer's around the world.

In order to construct equipment of the highest quality, FDI manufactures all primary components in the company's specialized factory – including International Pitch flat feeder chain. FDI is one of only few manufacturers of this chain in the world.

As well as offering support for our own equipment, FDI has the ability to provide alternate solutions for most competitive equipment.

A sale is just the start of a relationship. By offering a product and listening to the customer's requests, a system can be designed to meet goals and objectives, based on cost efficiencies or special design characteristics.

We are committed to the continual improvement of our equipment and in control of the quality of our products from start to finish.

FDI Cage Systems

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FDI “Condo” Enrichable Stacked Layer Cage

Features & Benefits

(Many other cage sizes and number of tiers available upon request)

Condo Dimensions:

- Width 24” to 144” (24” increments)
- Depth with cage back 26”, 28 or 30”
- Height (back) 18 inches
- Floor Slope 7.5 Degrees
- Door Height 13.25 inches
- Door Width 23 inches

Condo Floors:

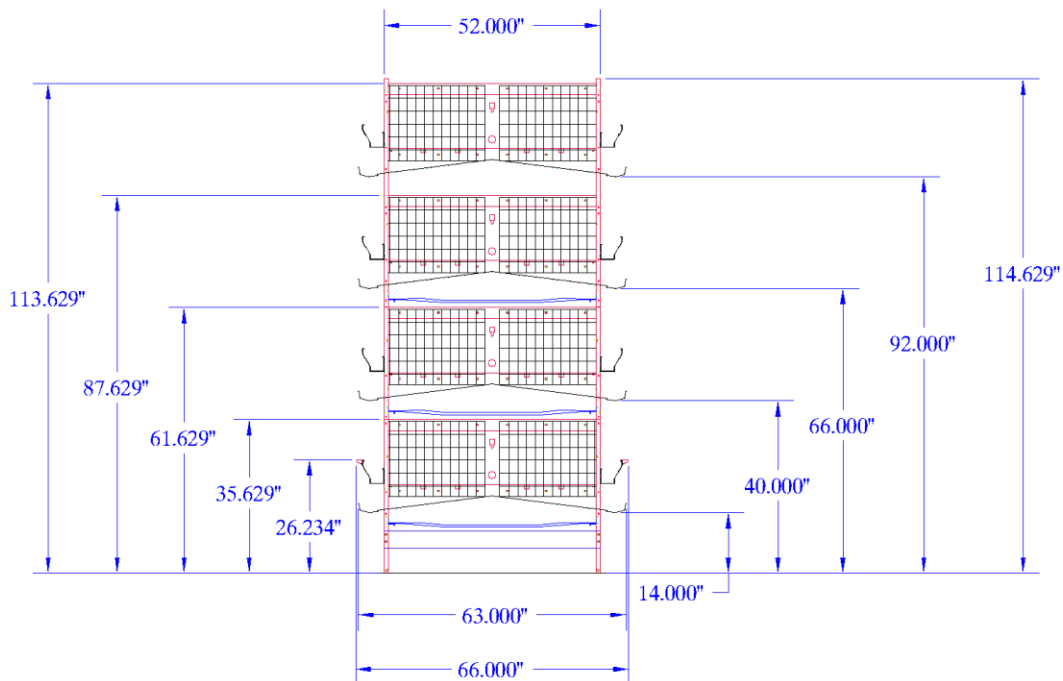
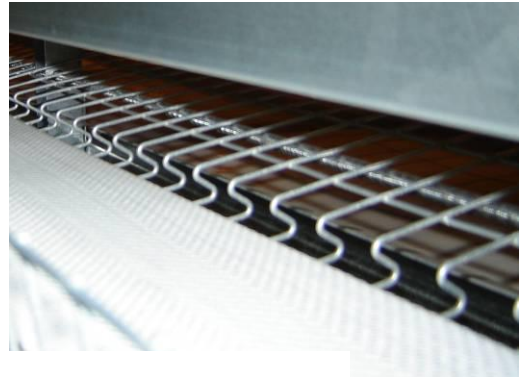
- Material Used 1” x 2” 14 Gauge Galvanized After Weld Wire Mesh
Tensile Strength – 107,000 PSI (737.743 kilopascal)
Weld Shear – 440 lbs. (199 kg)
Zinc Coating Weight – 1.03 oz. per foot (29 grams)

Note: Galvanized After Weld wire mesh is hot dipped galvanized after the welding process.



FDI “Condo” Enrichable Layer Unit - Standard Features and Benefits:

- 12’ Condo sections with HD legs to the floor every 2’
- 24” wide horizontal sliding doors make for easy access and visibility to the birds – one hand operation with positive dimple locks, (***spring loaded push in doors also available***)
- Cage legs every 2 feet provide the ability to add or remove the wire dividers without adding any additional structural supports
- Adjustable feet used for Condo leveling provide 1.5” of adjustment
- FDI full 4” wide egg trays have L-bend design to add strength to the egg tray and provide sufficient space for heavy egg loads
- Condo floors are constructed using 1” x 2” galvanized after weld (GAW) 14 gauge wire mesh for long life
- The design of the floors and floor support wires give the floors a walking effect reducing bird leg and foot injuries



- Galvanized steel step rails ***installed on the front edge of the lower feed trough*** provide a step to view the upper tiers as well as protection from damage by bird carts (optional)



- The FDI “Enrichable” Condo Cage sections are designed to easily add “enrichments” at any time without adding any structural supports eliminating the need for a “Pre-enriched” cage.
- Adding Condo ***“Enrichments”*** will meet or exceed proposed EU requirements with items such as a dedicated nest area with curtains, nest pad, litter delivery system and scratch mat, additional feed trough space, and perches.



Watering:

- Lubing stainless steel nipple drinker watering system
- the water line is located over the cage back divider in square **28 mm** pipe
- drinker spacing is 12” giving each bird access to 2 drinkers
- a drip trough or Littergard cups are located under each drinker to catch any access water helping to keep manure dry
- pressure regulator header kits with stands and mounting brackets and flush breather kits



Stacked Layer Cage Features & Benefits

(Many other cage sizes and number of tiers available upon request)

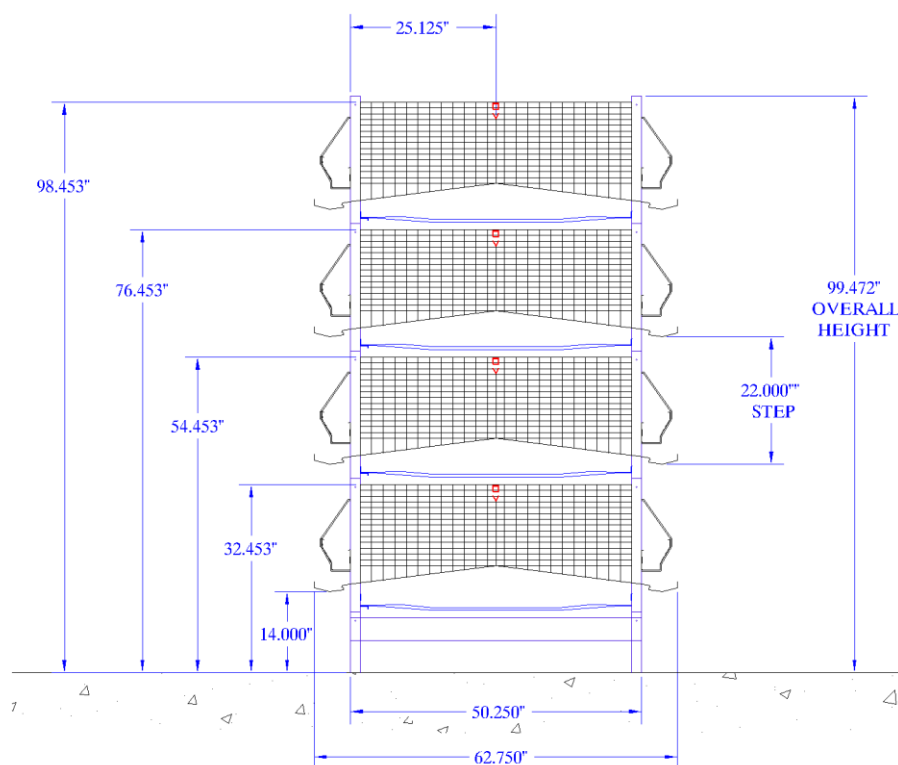
Standard Cage Dimensions:

- Width 24 inches
- Depth 25.125 inches
- Height (back of cage) 14 inches
- Height (front of cage) 17.125 inches
- Floor Slope 7.4 Deg.
- Door Height 8.755
- Door Width 23 inches
- Cage Area 603 sq. in.
- Birds per cage 9 @ 67 sq. in. per bird

Cage Floors:

- Material Used 1" x 2" 14 Gauge Galvanized After Weld Wire Mesh
Tensile Strength – 107,000 PSI (737.743 kilopascal)
Weld Shear – 440 lbs. (199 kg)
Zinc Coating Weight – 1.03 oz. per foot (29 grams)

Note: Galvanized After Weld wire mesh is hot dipped galvanized after the welding process

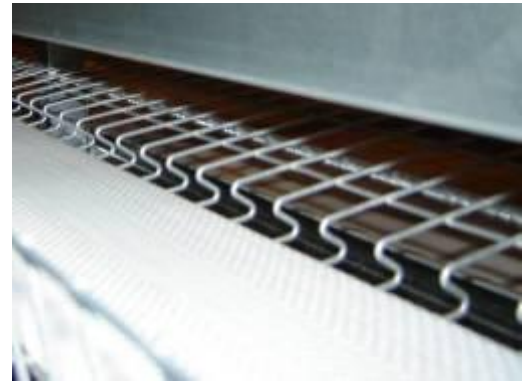


Stacked Layer - Standard Features and Benefits:

- Full width sliding doors provide easy access and visibility to the birds – one hand operation with positive dimple locks (***spring loaded push in doors also available***)
- Horizontal door wires help prevent feed waste



- 4" (10.16cm) wide egg trays
- S-bend design adds strength and help prevent egg belts from curling assuring eggs roll out



- Galvanized steel step rails ***installed on the front edge of the lower feed trough*** provide a step to view the upper tiers as well as protection from damage by bird carts (***optional***)



- breast plates help eliminate contact between birds and eggs on egg trays as well as helping to provide cleaner eggs (***optional***)
- 8 foot cage sections with 14 gauge (2mm) legs every 48 inches
- Adjustment bolts are used for cage leveling providing 1.5" of adjustment
- Cage floors are constructed using 1" x 2" galvanized after weld (GAW) 14 gauge (2mm) wire mesh for long life
- The design of the floors and floor support wires give the floors a walking effect reducing bird leg and foot injuries



Watering:

- Lubing stainless steel nipple drinker watering system
- the water line is located over the cage back divider in square 28 mm pipe
- drinker spacing is 12" giving each bird access to 2 drinkers
- a drip trough or Littergard cups are located under each drinker to catch any access water helping to keep manure dry
- pressure regulator header kits with stands and mounting brackets and flush breather kits



A-Frame Layer Cage System Features & Benefits

(With Manure Drape)

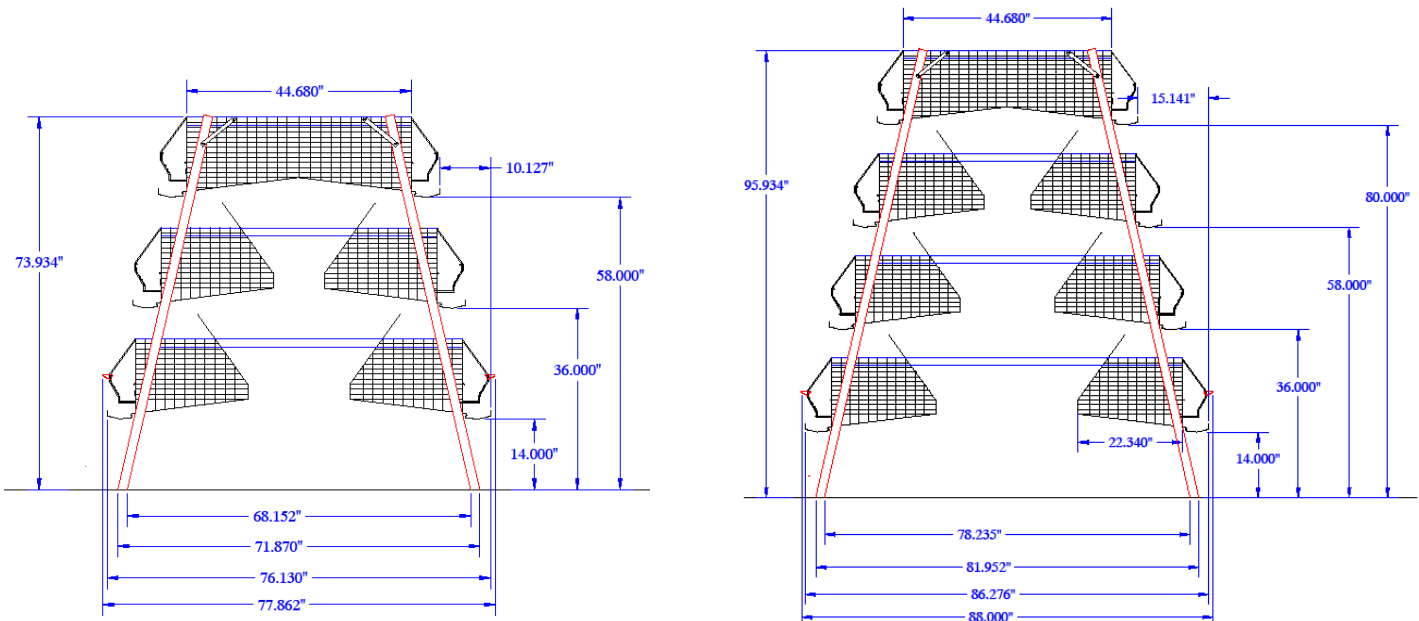
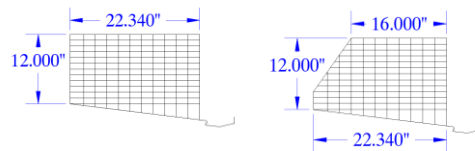
(Many other cage sizes, number of tiers and leg angles available upon request)

Cages:

- Cage Width 24 inches
- Cage Depth 22.34 inches
- Height (back of cage) 12 inches
- Height (front of cage) 14.875 inches
- Floor Slope 7 Degrees
- Door Height 6.875 inches
- Door Width 23.75 inches
- Cage Area 536.15 sq. in.
- Birds per cage 8 @ 67 sq. in. per bird

Cage Floors:

- Material Used 1" x 2" 14 Gauge Galvanized Wire Mesh
Tensile Strength – 107,000 PSI (737,743 kilopascal)
Weld Shear – 440 lbs. (199 kg)



Square Back Cage without Manure Drape

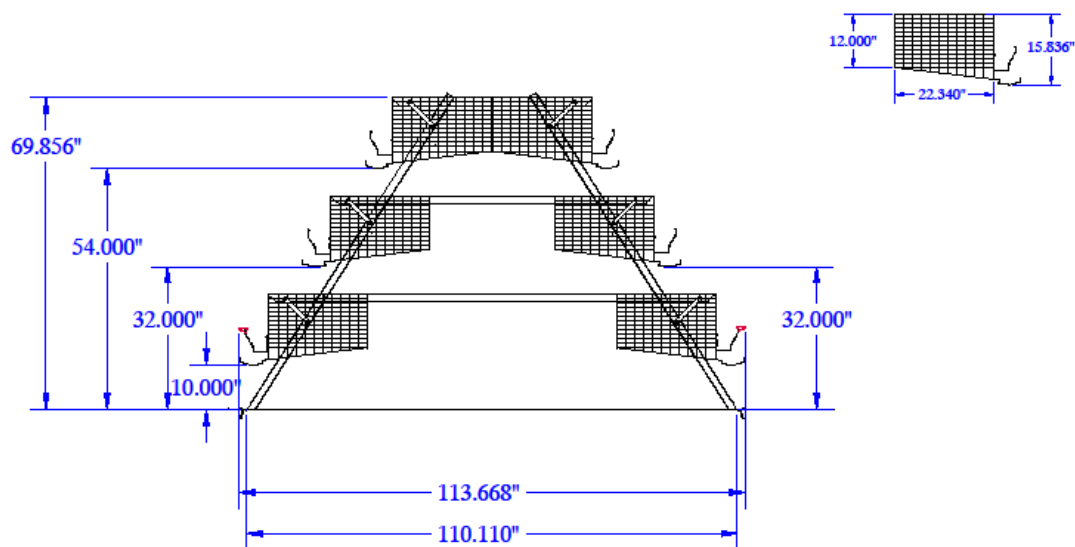
(Many other cage sizes, number of tiers and leg angles available upon request)

Cages:

- Cage Width 24 inches
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- Cage Area 536.16 sq. in.
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Cage Floors:

- Material Used 1" x 2" 14 Gauge Galvanized Wire Mesh
Tensile Strength – 107,000 PSI (737,743 kilopascal)
Weld Shear – 440 lbs. (199 kg)



A-Frame Layer Cages – Standard features and benefits:

- 8' cage sections with legs every 8'
- cage legs are manufactured using 14 gauge galvanized steel and are formed into a 1.750" "C-Channel" for maximum strength with 8' leg spacing
- full width sliding doors make for easy access and visibility to the birds – one hand operation
- horizontal door wires help prevent feed loss by preventing hens from tossing feed out of the trough
- cage floors, backs and egg trays are constructed using 1" x 2" **galvanized** 14 gauge wire mesh
- truss wires attached to the a-frame cross bars support the cage back of each tier reducing the potential for cage fatigue
- two floor support wire under each cage floor (cage front to back wires)
- slant back cage design with manure curtains
- woven polyethylene curtain material is held in place by 8' lengths of a PVC fastener and is supported by the extended cage back wire (curtain not shown in picture)
- the extended cage back design reduces installation time – the curtains can be installed on the cage before the cage section is assembled
- the extended cage back provides extra support which prevents curtains from sag reducing the amount of manure on the curtains – short hooks and clips are not required
- Galvanized steel step rails **installed on the front edge of the feed trough** provide a step to view the upper tiers as well as protection from damage by bird carts (optional)

Watering:

- Two 22mm square water lines per tier
- Lubing stainless steel 360 degree nipple drinker watering system
- the water line is located on the cage top on 2" water pipe stands which raise the water pipe to the ideal drinking height
- drinker spacing is 24" – one nipple drinker per cage (optional 12" nipple spacing)
- Lubing pressure regulator and flush end assemblies

Manure Handling

- Choice of floor mounting low speed manure belts, shallow pit scrapers (see a-frame manure handling section) or high rise layer house concept



Stairstep Layer Cage System Features & Benefits

(Many sizes available to meet customer requirements.)

Cage Features:

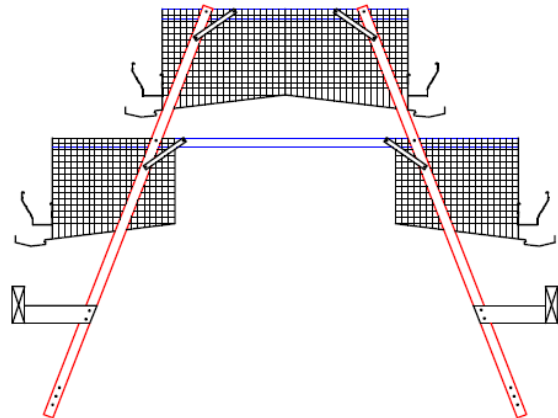
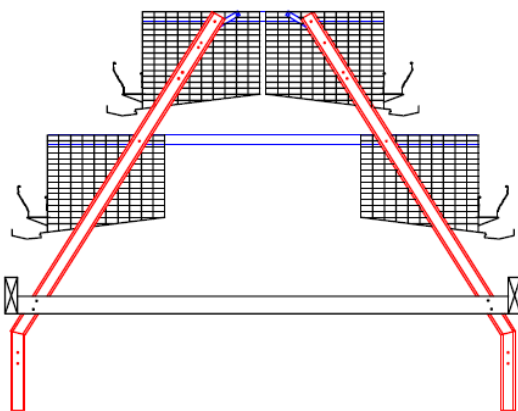
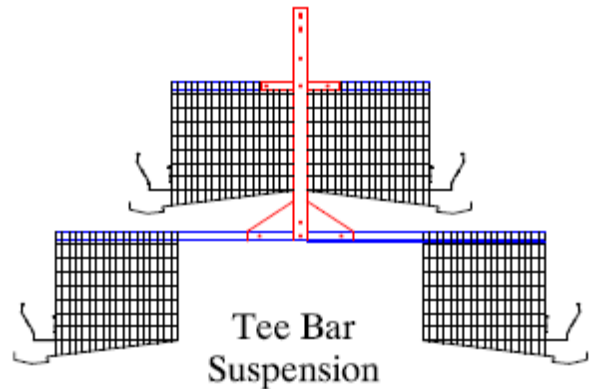
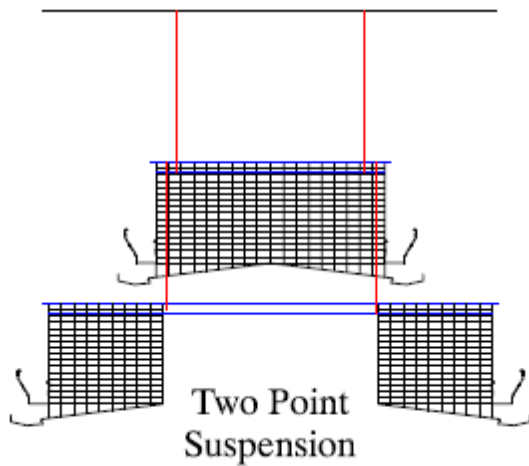
- 8' hanging cage sections or a-frame stands with cross bars every 4'
- cages constructed using 1" x 2" 14 gauge wire mesh floors, backs and tops
- cage hangers every 4' complete with adjustment for cage leveling
- two point suspension hangers manufactured from 1/4" galvanized hard rod
- tee bar suspension manufactured from 14 gauge galvanized steel
- pull up or sliding doors

Egg Collection:

- hand egg collection or optional automatic egg collection

Step options:

- Full Stair Step – no cage to cage manure pass through
- Modified Stair Step – manure drops on scraper board which then needs to manually scraped clean into a pit below



Stacked Pullet Rearing Cage Features & Benefits

(Many other cage sizes and number of tiers available upon request)

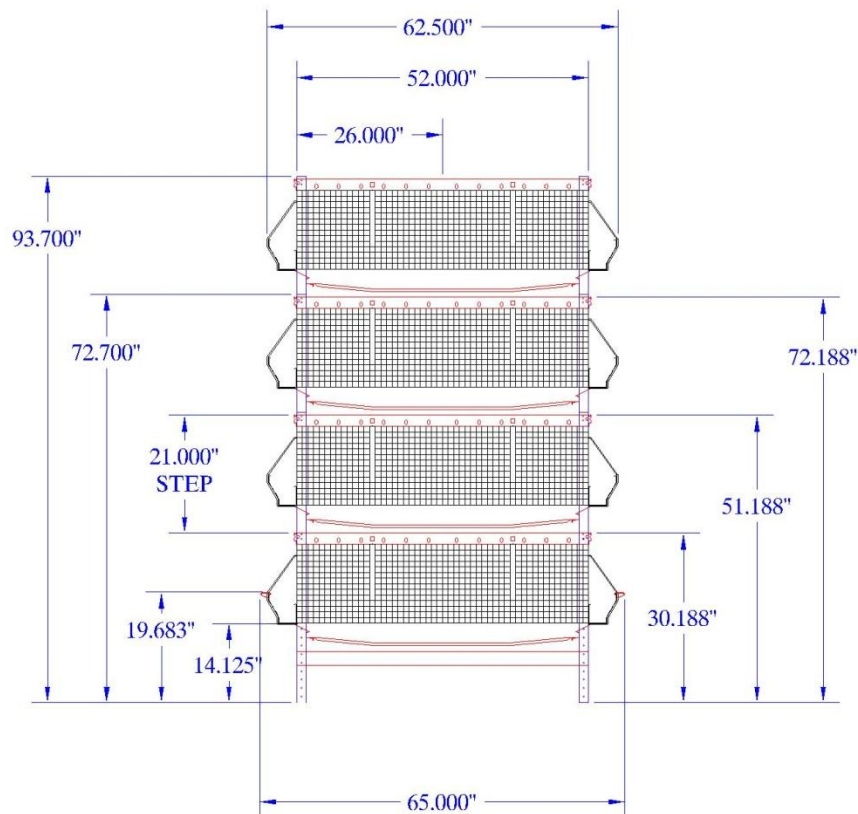
Cage Dimensions:

- Width 30 inches
- Depth 26 inches
- Height 16 inches
- Door Height 8.755 inches
- Door Width 14" door openings (2 per cage)
- Cage Area 780 sq. in.
- Birds per cage 15 @ 52 sq. in. per bird

Cage Floors:

- Material Used 14 Gauge Galvanized After Weld Wire Mesh
.5" x 2" start tiers and 1" x 1" grow tiers
Tensile Strength – 107,000 PSI (737,743 kilopascal)
Weld Shear – 440 lbs. (199 kg)
Zinc Coating Weight – 1.03 oz. per foot (20 grams)

Note: Galvanized After Weld wire mesh is hot dipped galvanized after the welding process.



Pullet Cages – Start and Grow Tier Features and Benefits

- 10' cage row sections with stands every 5'
- the cage legs are manufactured using 14 gauge galvanized steel and are formed into a 1-3/4" U-channel
- adjustable feet are used for cage leveling – plus or minus 1.5"
- interlocking sliding doors on cage fronts – doors can be opened independently for easy access and visibility of the birds – one hand operation (***spring loaded push in doors also available***)
- cage fronts designed to meet the requirements of day old chicks
- **.5" x 2"** 14 gauge (2mm) Galvanized After Weld (GAW) floors in the start tiers
- **1" x 1"** 14 gauge (2mm) Galvanized After Weld (GAW) floors in grow tiers
- **1" x 1"** 14 gauge (2mm) Galvanized After Weld (GAW) backs and dividers in the start tiers
- **2" x 1"** 14 gauge (2mm) Galvanized After Weld (GAW) backs and dividers in the grow tiers
- 2 floor support wires under each cage floor provide a walking effect reducing bird leg and foot injuries
- Galvanized steel step rails ***installed on the front edge of the feed trough***, provide a step to view upper tiers as well as protection from damage by bird carts (optional)



Feeding – Start and Grow Tier Features and Benefits

- FDI Pillar Feed Manifold – one common manifold supplies all levels of feed trough with a feed recycling wheel on each tier
- The recycling wheel mixes uneaten feed with fresh feed during the feeding cycle
- The **start tiers** use the peep hole feed trough design with an adjustable bird restrictor for the start tiers
- this design allows day old chicks to eat directly from the trough
- the feed trough is fastened outside the cage which eliminates entry by birds preventing droppings from contaminating the feed
- a feed plate located on the cage floor behind the feed trough on the 2 start tiers helps day old chicks locate feed in the feed trough
- FDI feed trough and trough hangers will easily support the weight of an average size worker, allowing for all levels of feed trough to be used as a step
- the bird restrictor is simply adjusted by means of a winch at the cage row end to easily match bird growth
- the **grow tiers** use a standard high lip feed trough without peepholes or restrictor and is designed to allow birds to eat over the trough back at approximately 4 to 5 weeks of age
- Direct drive motors and gear boxes will drive the FDI feed chain, delivering feed at 20', 40' or 60' per minute – size and quantities determined by length of row and number of tiers



Watering – Start and Grow Tier Features and Benefits

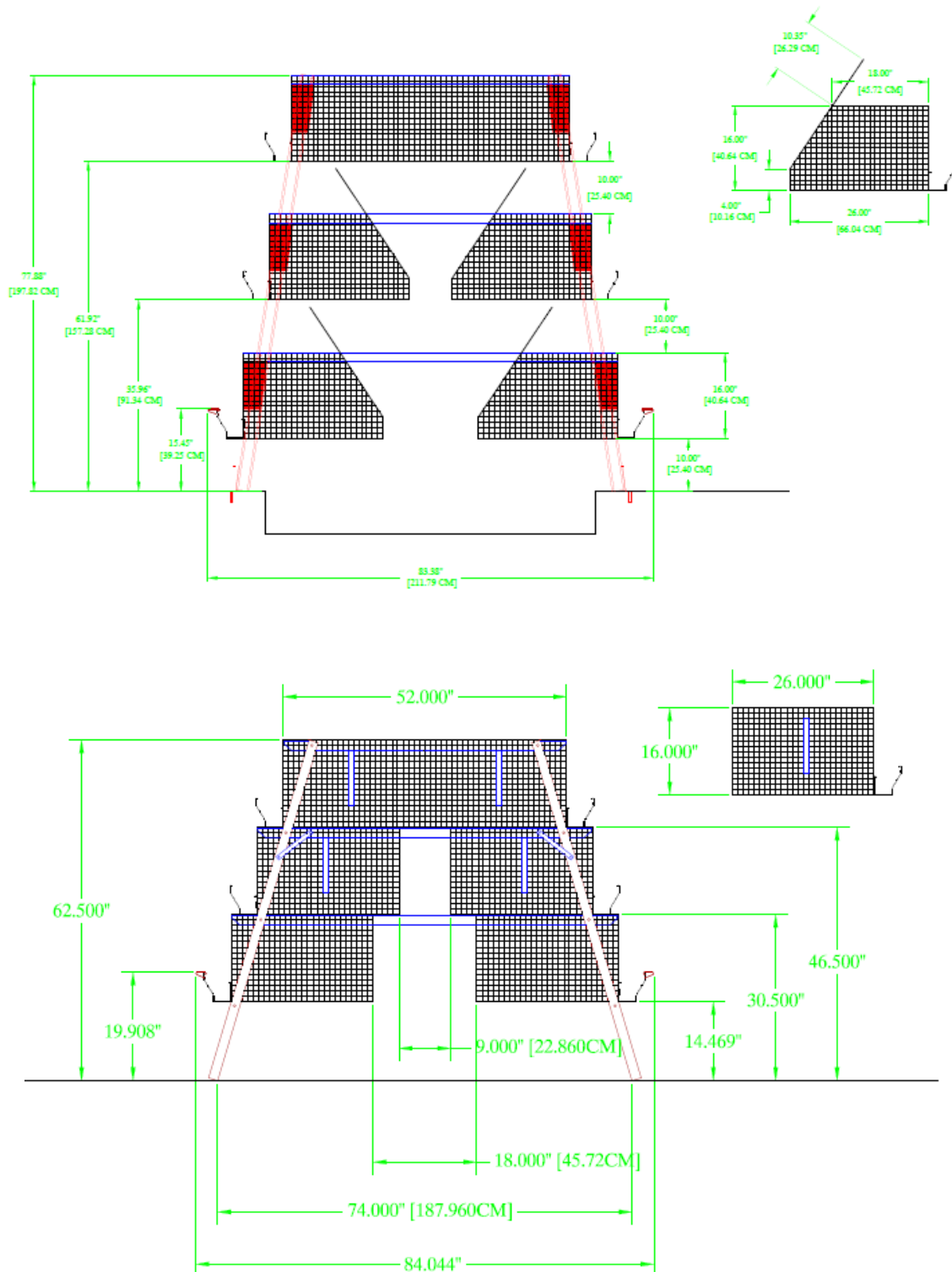
- Lubing stainless steel 360 degree nipple watering
- 2 nipples per cage spaced 15” apart in start tiers with 2-22mm water lines for each start tier (shown with optional cups)
- the adjustable water pipe runs through the cage providing adjustable watering in the start tiers
- the height of the water pipe is simply adjusted by means of a winching system at the end of the cage row to easily match bird growth in the start tiers
- grow tiers have one shared 28mm pipe per tier located over the cage back with 10” nipple spacing and drip trough
- Lubing pressure regulator and stand kits and flush breather kits



A-Frame Pullet Rearing Cage System

Features & Benefits replicate those of the FDI “stacked” pullet rearing cages

Available with or without Manure Drape
(Many cage sizes, number of tiers and leg angles available upon request)



Stacked Quail Laying Cage Features & Benefits

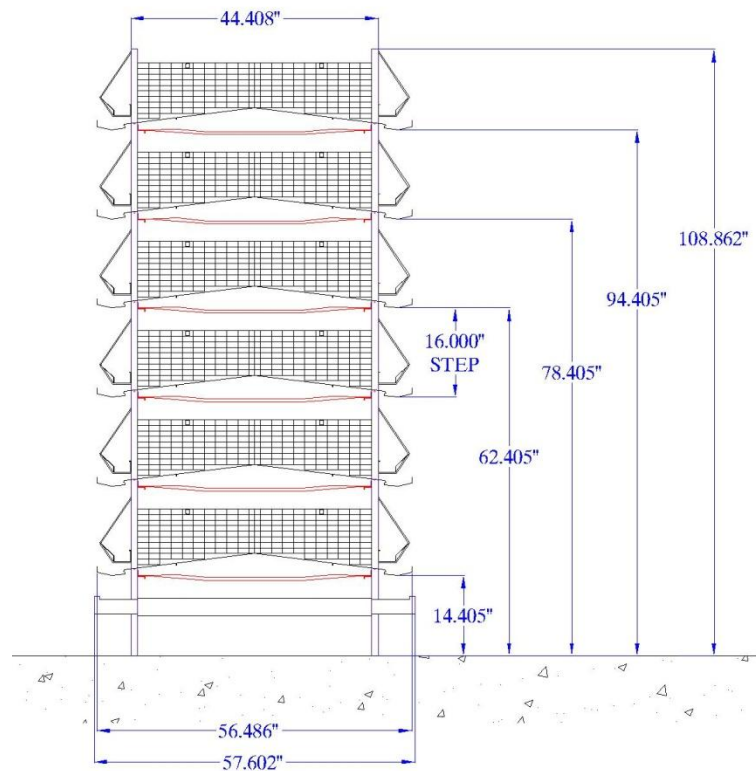
Cage Dimensions:

- Width 20 inches
- Depth 22 inches
- Height (back of cage) 8 inches
- Height (front of cage) 10.50 inches
- Floor Slope 6.5 Degrees
- Door Height 5.625 inches
- Door Width 17.75 inches
- Cage Area 440 sq. in.
- Birds per cage 20 @ 22 sq. in. per bird

Cage Floors:

- Material Used $\frac{1}{2}$ " x 1" Galvanized After Weld Wire Mesh
Tensile Strength – 107,000 PSI
Weld Shear – 440 lbs.
Zinc Coating Weight – 1.03 oz. per foot

Note: Galvanized After Weld wire mesh is hot dipped galvanized after the welding process



Stacked Quail Breeder/ Layer - Standard Features and Benefits:

- 10' cage sections with legs every 5'
- cage legs are manufactured using 14 gauge galvanized steel and are formed into a U-Channel
- adjustable feet are used for cage leveling provide 1.5" of height adjustment
- full width sliding doors make for easy access and visibility to the birds – one hand operation
- horizontal door wires help prevent feed waste caused by active birds
- cage floors are constructed using **½" x 1" galvanized after weld (GAW) wire mesh**
- a floor support wire under each cage floor give added strength
- the design of the floors and floor support wires provide a walking effect reducing bird leg and foot injuries
- breast plates are standard and eliminate contact between birds and eggs on egg trays
- 14 Gauge Galvanized steel step rail and brackets bolted to the cage leg below the bottom egg tray provides a step to view the upper tiers as well as protecting the bottom egg tray from damage by egg and bird carts



Watering – Standard Features and Benefits:

- stainless steel nipple watering – 2 nipples per cage (10" spacing) with water line mounted in cage center gives birds access to 2 drinkers – 2 water lines per tier
- low pressure design reduces water waste keeping the manure drier
- pressure reducers & flush breather kits



Automatic Chain Feeding Systems for Layer, Pullet and Quail Cages

- FDI Pillar Feed Manifold – one common manifold supplies all levels of feed trough with a feed recycling wheel on each tier
- The recycling wheel mixes uneaten feed with fresh feed during the feeding cycle
- the 20 gauge (1mm) galvanized hi-lip feed trough has a swedged end for strength and ease of assembly – trough couplers are not required
- FDI feed trough and trough hangers will support the weight of an average size worker, allowing all levels of feed trough to be used as a step
- Hi-lip feed trough design minimizes feed waste by the birds
- Direct drive motors and gear boxes will drive the FDI feed chain, delivering feed at 20', 40' or 60' per minute – size and quantities determined by length of row and number of tiers
- FDI manufactured flat chain feeding give the producer virtually unlimited options for bird stimulation and restrictive feed control
- Feed trough cleanouts located in the corner connecting trough which is located over the manure belts allow for simple clean up between flocks
- A-frame cages offer independent direct drives for each tier with a common manifold or a corner hopper drive unit for each tier





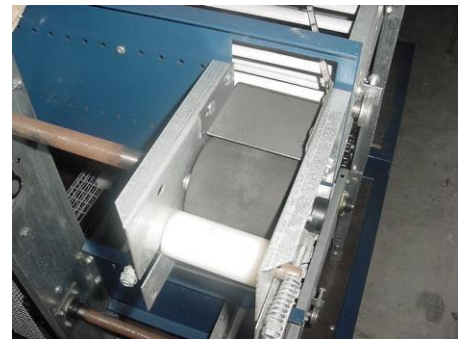
CHAIN FEEDING



Automatic Egg Collection

FDI Lowerator – Fixed or Variable Egg Belt Speed:

- 4" woven polypropylene egg belts move eggs from the cage row to the collectors at up to 9 feet per minute
 - The belts are driven by a 4" polyurethane roller with pinch roller which give positive traction for trouble free operation
 - Each Lowerator is factory assembled to simplify installation
-
- Eggs from the 4" egg belts are transferred to a short rod set which will deposit the eggs, non-stop one at a time onto a cradle – egg dosing is not required
 - With the openness of the Lowerator, soft shell eggs, manure or dirt on the egg belt will fall through the rod set into a collection tray on each level
-
- The FDI Lowerator offers adjustable unloading height to fit an overhead or floor mounted egg conveyors, and end of row hand packaging tables



Automatic Manure Removal for Layer, Pullet and Quail Cages

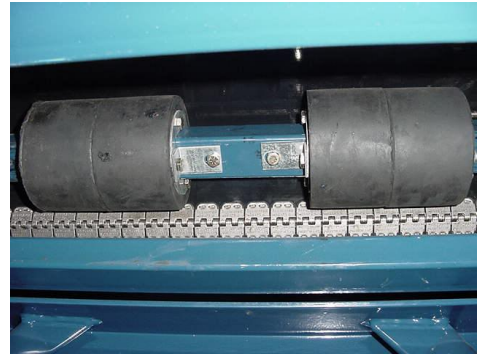
Manure Removal:

- The drive units are constructed from a galvanized steel frame assembly and shipped pre-assembled for ease of installation
 - Curtains on the drive units direct the manure to the cross pit below
 - A .040" (1mm) thick UHMWPE belt contains and transports the manure from each tier
 - The drive unit is designed to power manure belts in excess of 500 foot rows with minimal belt tension – greatly reducing stress on the belt and seam
 - A minimal number of motors and gear boxes per row are used to power the manure belts **at 15 feet per minute**
 - belt drive disconnects are used on belts providing a means to disengage belts not in use (primarily used with pullet rearing cages)
 - Extra wide manure rails help prevent manure from entering the cage or feed trough of the tiers below
-
- The manure belt idler end incorporates an auger cleaner system **powered by the idler roller** which removes dirt and feathers from between manure belts (optional)
-
- The manure belts are driven by 6" steel drive rollers (vulcanized rubber rollers optional) and ***powered rubber pinch rollers*** provide positive traction



FDI 18" and 24" High Speed Manure Belt Conveyor

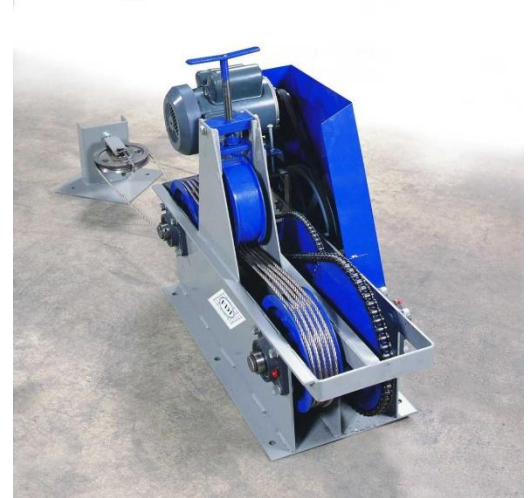
- Designed specifically for chicken manure from stacked belt battery cages
 - 24" wide high speed manure belt is PVC coated over cord for full flexibility year round and is spliced with stainless steel lacing
 - a **6" vulcanized rubber drive roller** and powered 4" rubber pinch roller moves the belt at **200 feet per minute** even in the harshest conditions
 - a 6" idler end roller with 1" shaft and bearings provides belt tension and tracking adjustment
 - the 12 gauge side frames and belt loaded hangers provide a strong concave to hold manure on belt centre
 - PVC return rollers are corrosion resistant
 - the open frame design helps prevent build up between the belts reducing the possibility of freezing
 - a transfer between the horizontal section and riser section is required and eliminates the chance of manure build up and belt problems at the riser transition rollers of competitive conveyors
 - manure transfer splash guards and conveyor covers are included with the riser sections
 - one drive unit is used to power each conveyor
-
- a heavy duty riser stand is simply bolted to the riser conveyor and a cement pillar for ease of installation
-
- Available travelling spreader attachment provides full length manure storage building piling



Pit Scrapers and Floor Mount Low Speed Manure Belts

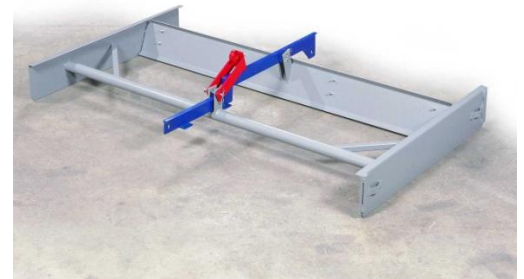
Cable Pit Cleaner Drive Unit

- 1-1/2 HP drive unit with large 10" diameter 5 groove cable drums provide reduced cable flexing and slippage
- large greaseable bearings
- double speed reduction provides plenty of torque required to pull up to 4 pit scrapers
- easy to use cable tension adjustment
- available with centre mount corner wheel to be used on a 3 pit system
- 1/4" and 5/16" stainless steel cable capacity



Scrapers

- 8", 12" and 16" high blades available
- baked enamel paint finish or stainless steel construction
- manufactured from heavy gauge steel to fit pit to 84" wide (wider scrapers available as special order)
- the blade raises and lowers by positive cable action to scrape manure in one direction
- blade lockout can easily be engaged or disengaged from the aisle to lock blade up when desired
- the blade has a high pivot point to provide maximum clearance when not scraping



Floor mounted low speed manure conveyors.

- Designed with the same proven characteristics of the FDI cage belt and high speed conveyor belt drive units
- White UHMW polyethylene manure belts (.040" thick), up to 80" wide
- floor mounted 14 gauge galvanized frame assemblies, with tapered manure rails
- each conveyor section is 8' or 10' long with legs and manure belt return supports every 4' or 5'
- loaded manure belt hangers every 16" or 20" form a strong concave to contain manure and liquid
- drive units with vulcanized rubber drive rollers and powered pinch rollers will power each belt
- a 24" idler end provides plenty of adjustment for belt take up and tracking
- belt speed of approximately 10' per minute



FDI 12" Heavy Duty Manure Auger

- can be easily installed in new or existing buildings
- 5 or 7 HP double reduction drive units provide many years of trouble free service
- 12" diameter auger, 3/16" thick flighting and 2-1/2" Schedule 40 center tube is used throughout the system
- 2" diameter solid shaft couplings connecting each auger section
- the horizontal and riser sections are connected using a replaceable universal joint
- 12 gauge galvanized auger trough is joined together using bolted couplers allowing for extension or repair
- A trough cover protects the system from weather on the outside auger
- maximum riser angle is 28 degrees with standard auger – specialty augers are available



Commercial Rabbit Cage Systems

Maternity/Breeder cages



- 16" x 10" nest area
- 16" x 24" doe area
- 14 gauge GAW wire mesh
- back to back feeders for easy filling
- separate access doors for does and young
- easy open doe to nest lock outs
- PVC nest boxes
- Door openings lined with smooth edging
- Lubing watering with stainless steel nipples
- 14 gauge galvanized bolt together stands

Fryer/Grower Cages

- 20" wide x 16" deep x 10" high cages
- 14 gauge GAW wire mesh
- 3 tier A-frame style
- perforated feed trough bottom
- removable feed trough lengths
- top opening spring assisted doors
- Door openings lined with smooth edging
- Lubing watering with stainless steel nipples
- 14 gauge galvanized bolt together stand
- manure deflectors prevent droppings from entering lower tiers



Buck cages also available and are installed using the maternity cage stands.