



## *Quail Layer/Breeder Cage*



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# Stacked Quail Laying Cage Features & Benefits

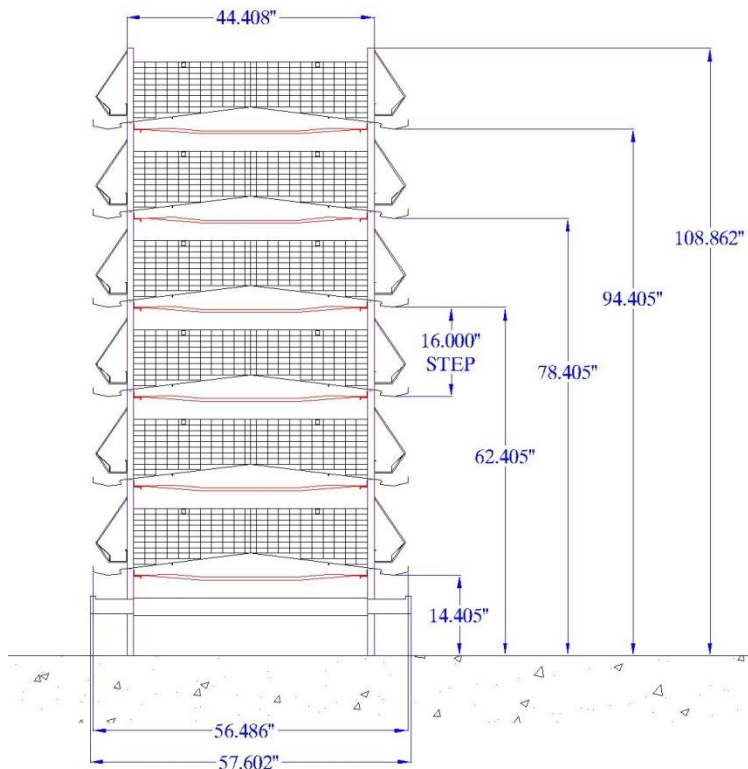
## Cage Dimensions:

- 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 1/2" 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 provides a step to view the upper tiers as well as protecting the bottom egg tray from damage by egg and bird carts
- 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



## **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



## *FDI Automatic chain feeding system*

- 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 swaged 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 of motors/gear boxes 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



## *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**
- 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

