

## Advantages and Benefits

### Outstanding Meat And Foot Quality

Broiler Growing Solution is characterized by the unique plastic slatted floor. Perforations on the slat allow manure to fall through the holes onto the manure belt below, thus keeping the floor clean. This also keeps the birds' feet clean and protects them from developing calluses. The soft, smooth, yet stable mat prevents the formation of breast blisters. The automated livestock removal process prevents wing breakage and bruising. These benefits ensure an outstanding, first-class quality product and excellent profitability.

### Flock Uniformity

Broiler Growing Solution features height-adjustable feed and water supply lines that ensure a high level of flock uniformity. The height of the feed and water supply lines can be adapted to match livestock growth. The central layout with two feed pans in each section contributes to a good feed intake and low feed loss. Easy access to the feed pans optimizes the flock's feed conversion and supports uniform growth of all livestock.

### Efficient Livestock Removal

With many years of practical experience, Cumberland has succeeded in optimizing the livestock removal process for the Broiler Growing Solution. Above all, much attention was paid to achieving a high degree of automation. After removing the floors, birds are automatically transported along the manure belt and elevated by an automatic lift system to the Broiler cross-conveyor, which gently delivers them to the loading bay. Since the manure belt runs on special Tecno manure belt rollers, it is capable of transporting heavy loads while achieving low wear levels.

### High Standard Of Hygiene And Livestock Health

Broiler Growing Solution features intelligent design details that promote the health and well-being of the livestock. Perforated plastic slat floor made of soft plastic reduce the risk of disease by preventing livestock from coming into direct contact with the manure. Breast and foot injuries are also largely prevented.

A simple and efficient livestock removal process furthermore ensures that the birds remain calm and are thus not injured in the process. The reliable water supply is also important: two water lines with seven nipples per section ensure optimum livestock rearing conditions.

### Low Operating Costs And Long Service Life

Cumberland's system is characterized by a wide range of technical advancements that minimize operational costs. For instance, manure belts on each tier can be controlled individually to save energy costs. The livestock removal process is optimized by first automatically transporting birds on the manure belt (once the floors are removed) and then via the lift system to the Broiler cross conveyor and finally to the loading bay, which saves time and effort. The excellent visibility provided by the design supports efficient and time-saving system operation. Many high-quality details also serve to enhance the system's durability, which lowers long-term operating costs across the entire service life. For example, hot dip galvanized components provide excellent corrosion protection and the unique roller-guided manure belt system also supports low-wear operation in longer systems.

### Fast, Convenient Operation

Broiler Growing Solution promotes fast, convenient operation. For example, visibility into the system is excellent, thus simplifying monitoring of the broilers. The practical sliding doors make it easy to access the livestock for vaccinations, culling, etc. On top of this, livestock removal is a quick and efficient automated process that keeps labor cost to a minimum. Additionally, each floor can be easily removed individually and then refitted after cleaning.

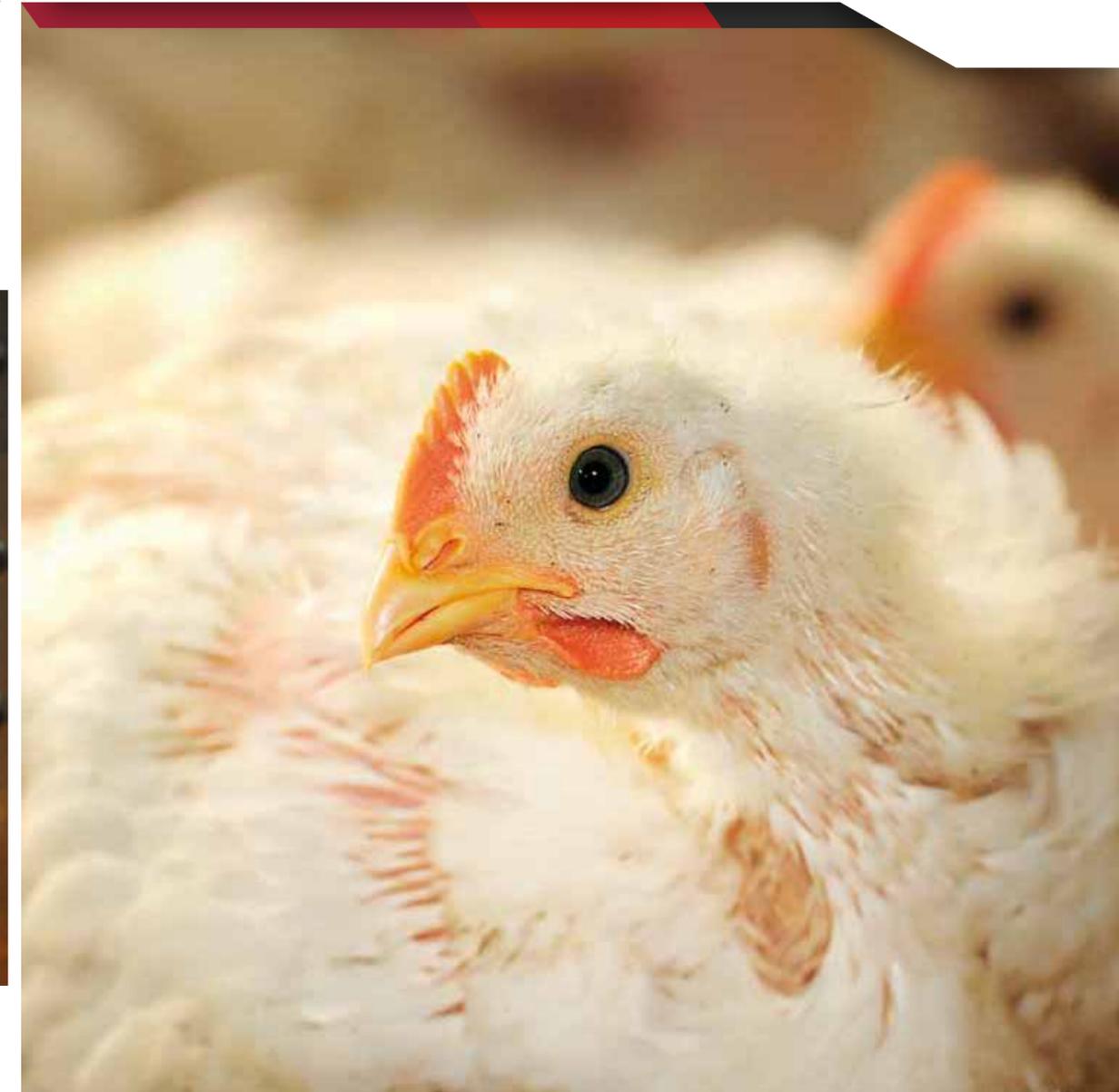
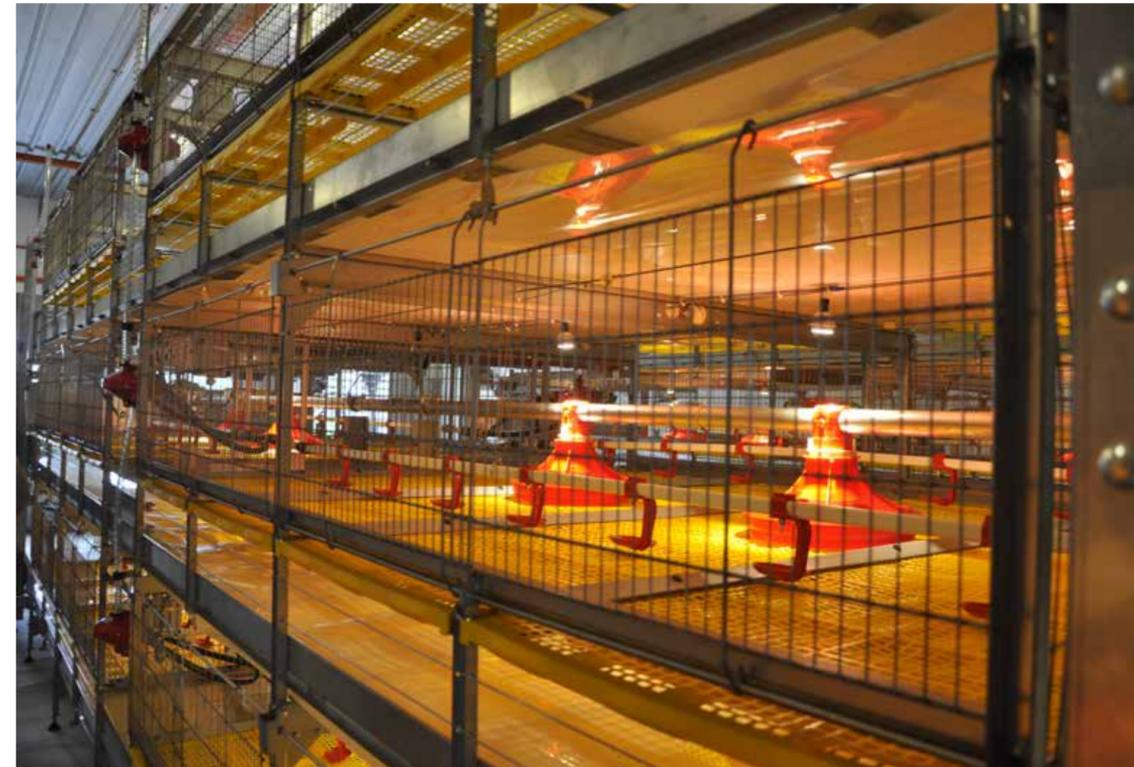
### Optimum Utilization Of Floor Space

Cumberland's system allows optimum utilization of floor space as it supports heights of up to four tiers. In comparison with deep litter systems, this allows for double to triple the stocking density on the same floor space.

## Broiler Growing Solution

Broiler Growing Solution is a growing system with a high level of automation for fast, convenient management of both the mechanical operations and the livestock. The system can be configured for up to four tiers to maximize utilization of available floor space and to optimize stocking density.

The unique perforated plastic slat floor provides an easy-to-clean surface that is gentle on the livestock.



## Broiler Growing Solution

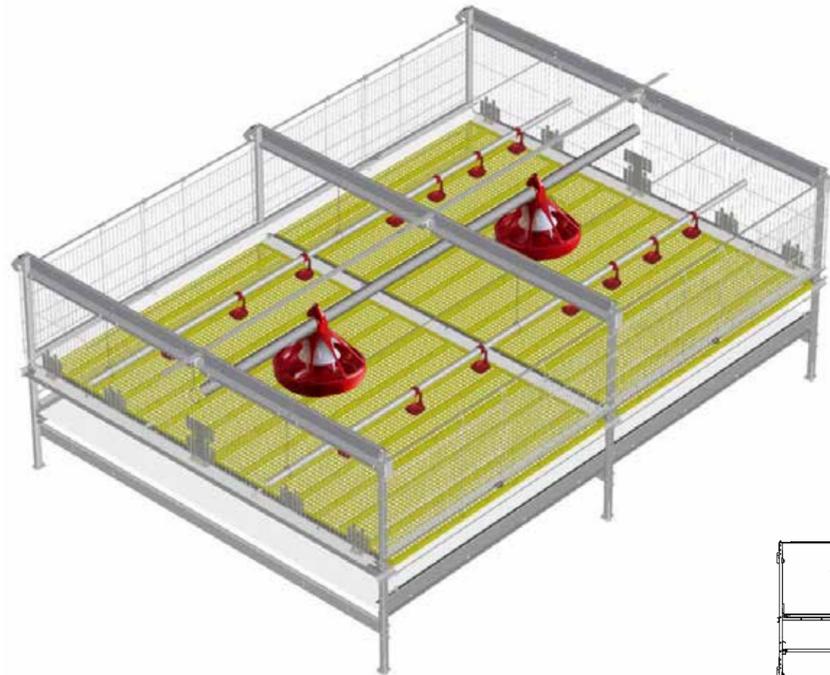
- Plastic slat flooring
- Manure belt rollers
- LED lighting system
- Automated harvesting system



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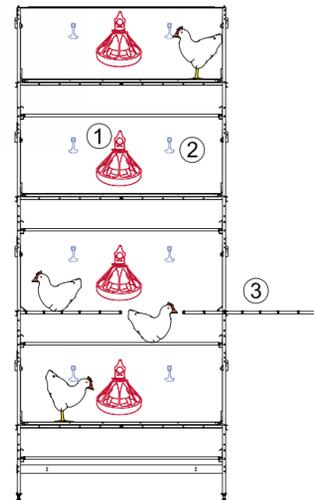


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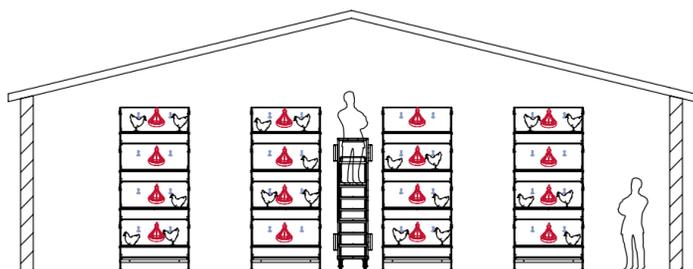


The central arrangement of the feed pans ensures good, even distribution of the feed.

Broiler Plus	mm	inch
Section length	2400.00	94.49
Width/upright, external	1790.00	70.47
Overall width, external	1830.00	72.05
Tier height	735.00	28.94
Min. floor clearance	240.00	9.45



1. Feed pan
2. Drinking line
3. Removable plastic slat floor



The Broiler system, comprising up to four tiers, enables efficient use of building space.

### Perforated Plastic Slatted Floor



The soft and stable floor of perforated plastic slat is perfectly suited for broilers. It prevents breast and foot injuries and promotes the well-being of the livestock. Better meat quality contributes to greater profitability. Additionally, the perforated slat flooring prevent direct contact between the livestock and their manure, which helps to maintain livestock health and a high standard of hygiene.

### Removable Floors

The plastic slat flooring can easily be removed individually. This supports thorough cleaning of the floor and the system as a whole.

### Mechanical Control Of The Tier

The manure belt on each tier can be individually controlled. This means that only the belt that is being cleared actually needs to run. This reduces power consumption and at the same time, operating costs.

### Manure Belt With Good Load-carrying Capacity

The manure belt is designed for heavy loads. This means that many animals can be transported quickly at the same time, which ensures a high level of efficiency in the livestock removal process.

### Automated Livestock Removal

After removing the floors, birds are transported along the manure belt and elevated by an automated lift system to the Broiler cross conveyor, which gently delivers them to the loading bay. This system has the advantage of making the livestock removal process very fast and efficient, which saves time and minimizes staff levels.

### Generous Clearance Between Section Floor And Manure Belt

Generous clearance between the floor and the manure belt ensures fast and efficient livestock removal. The birds remain calm, which helps to avoid injuries.

### Height-adjustable Feeding And Water Supply Lines



The feed and water supply lines for the livestock are height-adjustable and can be perfectly adapted to match bird growth to ensure a high level of flock uniformity.

### Central Layout With Two Feed Pans Per Section

The central layout with two feed pans in each section ensures good and even feed distribution and contributes to a good feed intake and low feed loss.

### Designed For Good Visibility

The system is primarily constructed of grates and unobtrusive uprights, which improve visibility and simplify monitoring of the broilers. This minimizes time and staff overheads.

### Hot-dip Galvanized Components

Functionally critical system components are hot-dip galvanized to ensure excellent corrosion protection and long service life. This reduces maintenance overheads and operating costs.

### Two Water Lines Each With Seven Nipples



The system is equipped with two water lines with seven nipples in each section, which deliver a reliable water supply. Birds always have access to a clean, fresh supply of water, which helps to keep them healthy and promotes their development.

### System Height Of Up To Four Tiers

The system can be configured for up to three or four tiers to maximize utilization of available floor space.

### Two Manure Scrapers

Two manure scrapers, located on the deflection pulley and on the manure belt, clean the inside of the belt, removing feathers and dust. This increases the durability and service life of the manure belt.

### Manure Belt Rollers



Cumberland's unique roller-guided manure belt system also supports low-wear operation in longer systems. Low rolling resistance reduces the required drive power, which increases the service life of the manure belt.

### Sliding Doors



Practical split sliding doors allow easy access to the livestock in the system.

### LED Lighting System



Optimal lighting for broilers with dimmable LED tubes or LED bulbs installed in the cage increases growth and feed conversion rate while keeping the birds comfortable.