



# Nest for broiler breeders

Canada meeting  
23 October





# Frank Luttels - About Me

**1989**

**Began Work in Ag Industry**

**2016**

**Joined Chore-Time Team**

**2017 – Present**

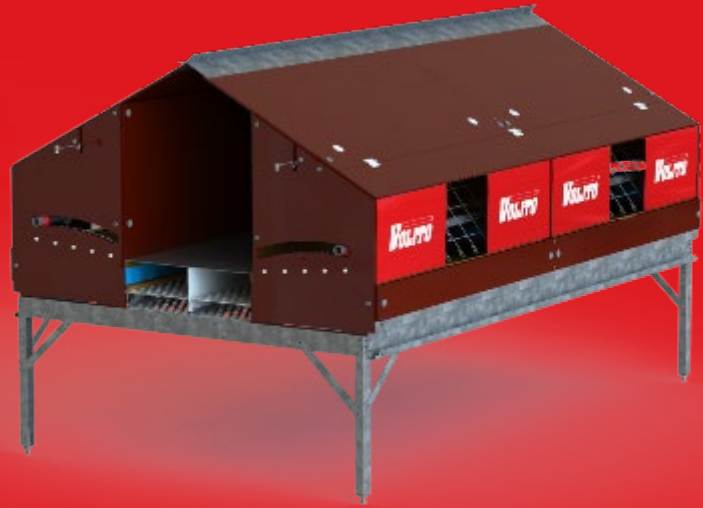
**Product Manager**

Development focus is on innovating grower labor saving solutions and improving bird welfare in aviaries and free-range systems.



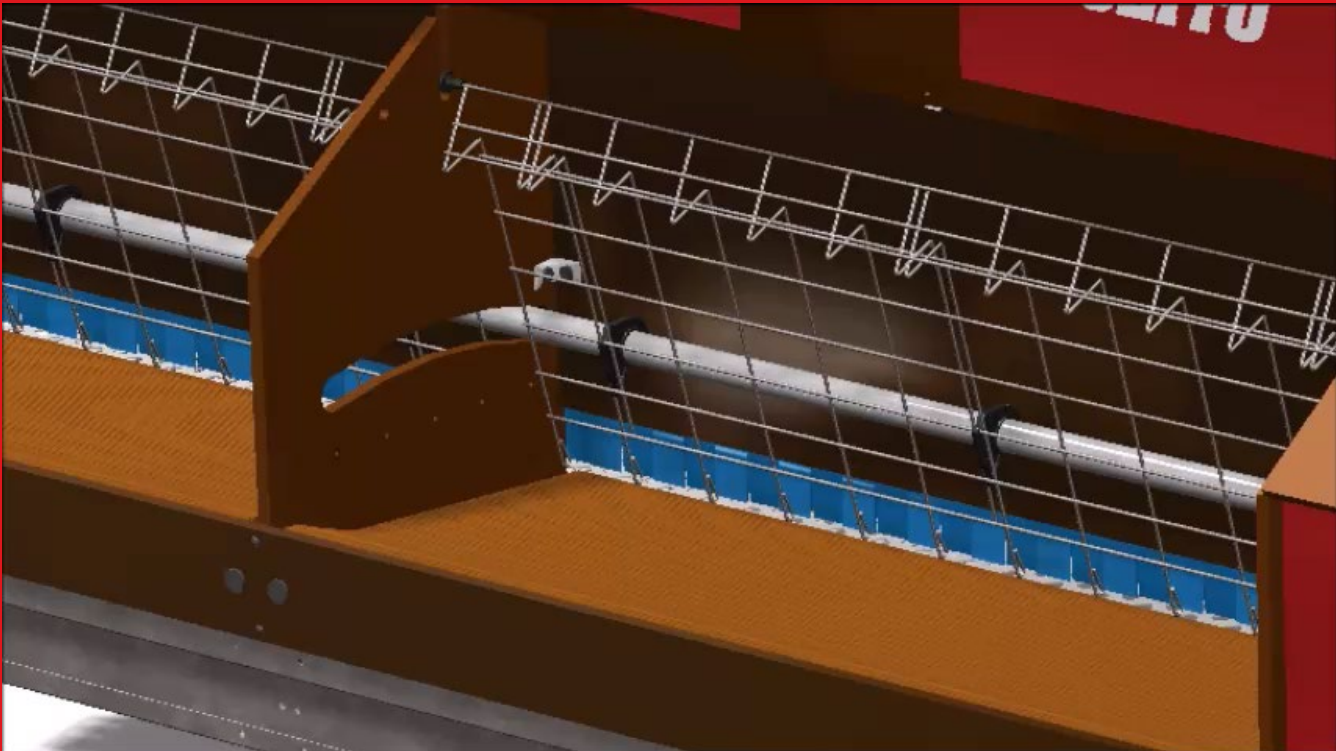


# Chore-Time breeder community nest solutions

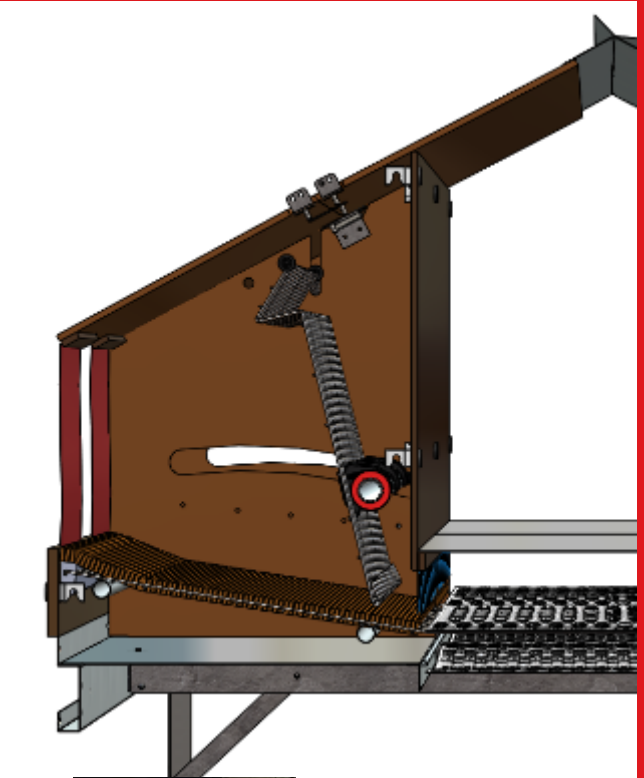


RDE nest  
Patented





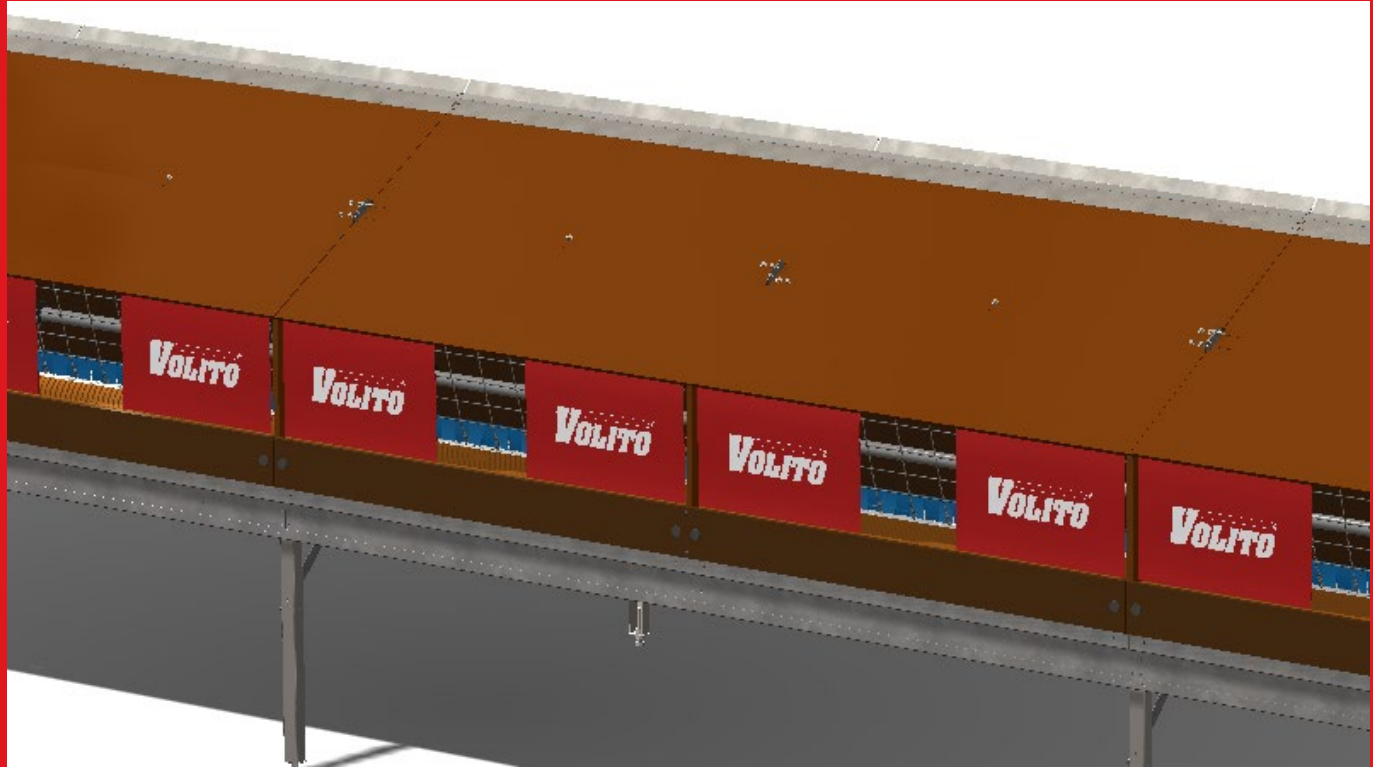
Chore-Time Group, A Division of CTB, Inc.



Chore-Time Group, A Division of CTB, Inc.



Chore-Time Group, A Division of CTB, Inc.





Chore-Time Group, A Division of CTB, Inc.





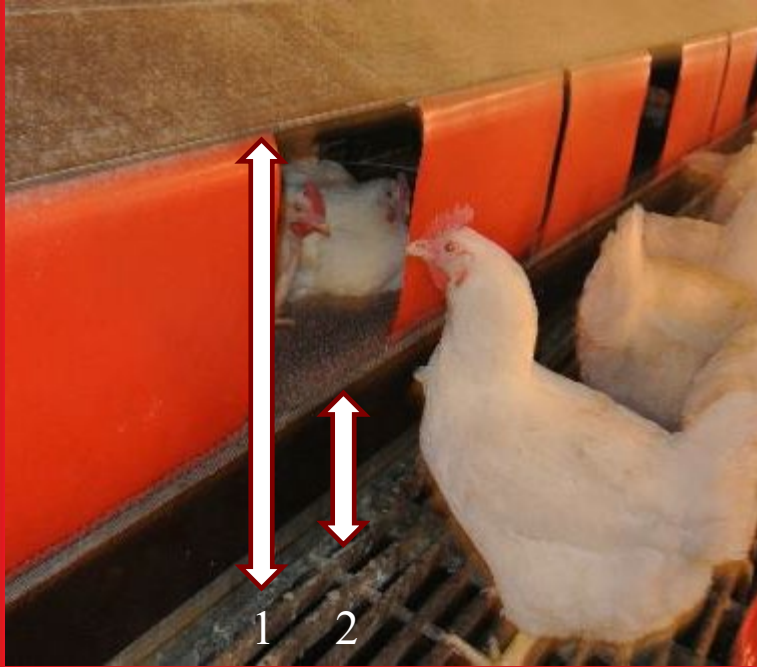
Chore-Time Group, A Division of CTB, Inc.



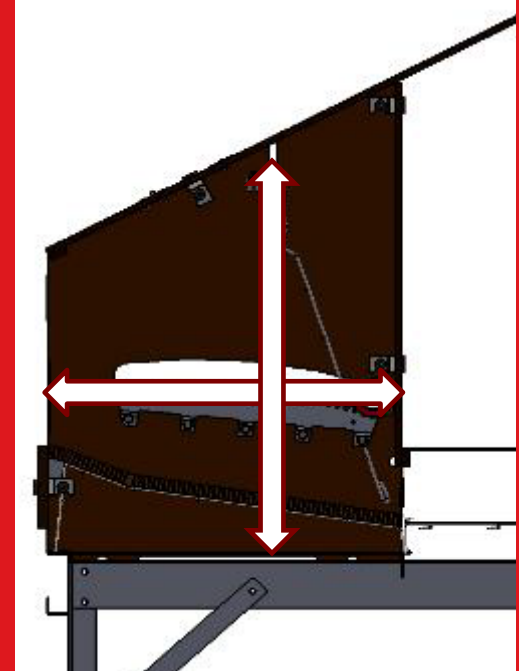
Chore-Time Group, A Division of CTB, Inc.



# Some essentials



1. 15.6 – 18.5 Inch, 40 – 47 Cm
2. 5.8 – 6.7 Inch, 15 – 17 Cm



- Spacious nest, lot of cm<sup>3</sup>
- Stable, damping material





# Wooden nest



WAGENINGEN  
UNIVERSITY & RESEARCH

[Home](#) [Profiles](#) [Research units](#) **[Research output](#)** [Datasets](#) [Press/Media](#) [Activities](#) [...](#)

## Relative preference for wooden nests affects nesting behaviour of broiler breeders

Anna C.M. van den Oever\*, T.B. Rodenburg, J.E. Bolhuis, Lotte J.F. van de Ven, Md Kamrul Hasan, Stephanie M.W. van Aerle, Bas Kemp

\*Corresponding author for this work

Adaptation Physiology, WIAS

Research output: Contribution to journal > Article > Academic > peer-review

### Highlights

- We compared four nest designs for broiler breeders in a relative preference test.
- The designs offered were control, partition, ventilator and wooden nests.
- The large majority of eggs ( $69.3 \pm 1.0\%$ ) was found in the wooden nests.
- There was more sitting and fewer nest visits per egg in the wooden nest.
- When closing the wooden nest, hens chose a new nest based on design and location.

<https://research.wur.nl/en/publications/relative-preference-for-wooden-nests-affects-nesting-behaviour-of>



Chore-Time Group, A Division of CTB, Inc.



# Breeder feeding

## KONAVI® Pullet Feeder for Breeders

### Get Your Breeder Pullets Started Off Right

The KONAVI® Pullet Feeder from Chore-Time can aid producers in getting breeder pullet chicks started off right for producing improved early uniformity for the flock. With the KONAVI Feeder's low pan height and patented scalloped edge, pullet chicks learn to eat from the outside of the pan starting at day one, resulting in reduced feed contamination.





## GENESIS® Feeder for Breeders

**More Feeding Space, Uniform Feed Delivery and Less Feed Waste.**

More space for birds to eat, consistent delivery of feed, and less wasted feed are just a few of the advantages of double pan feeding with the GENESIS® Breeder Feeder. It is available in loop and straight-line configurations. The loop system provides immediate delivery of feed to every pan in the house every time the feeder system runs – without tube indexing.

The GENESIS® Feeder's unique design lets you feed 33 percent more birds than a chain feeder – 64 birds per 12 linear feet (3.66 m) of GENESIS® Feeder compared to 48 on 12 feet (3.66 m) of chain feeder trough.



## ULTRAFLO® Feeder for Breeders

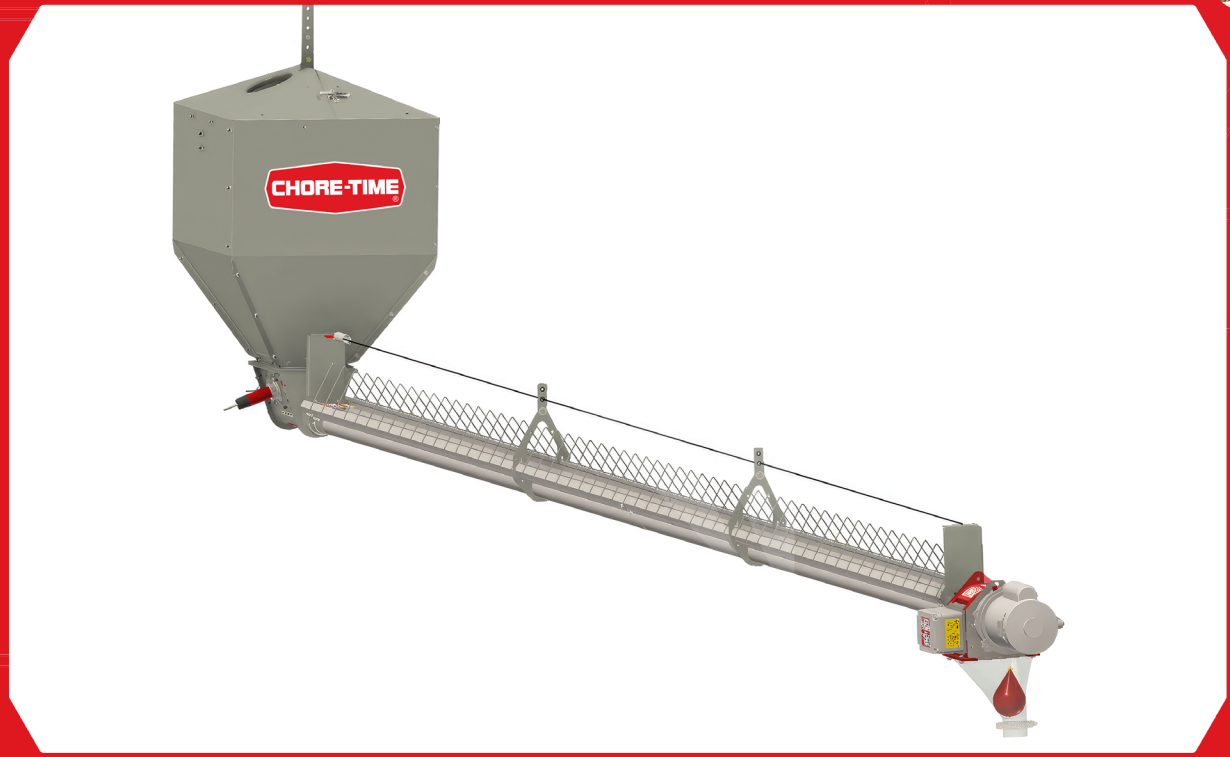
**Speed the Feed to Your Birds**

Chore-Time ULTRAFLO® Feeders are specially designed for use with breeder hens.





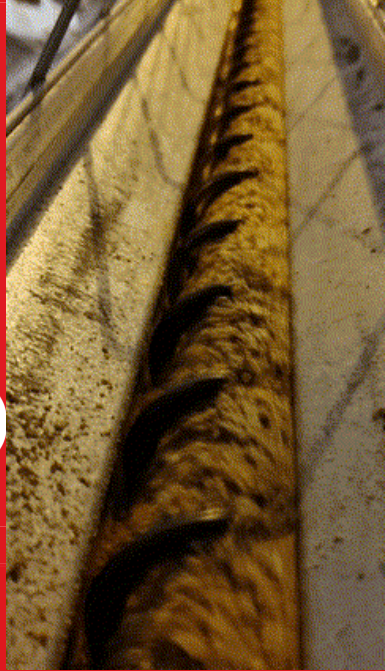
# UltraMale Feeder



# How Does It Work?



- Fill the hopper with the required day portion
- Run the auger – ideally, up in the air
- Easy adjustable feed level (Patent Pending)
- Presentation feeding

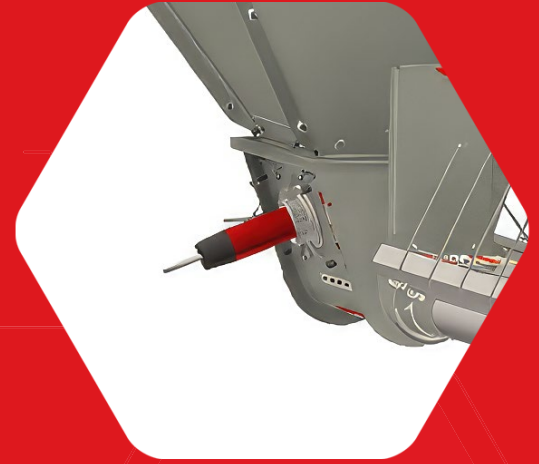






# How Do We Control the Auger Runtime?

- Stops on sensor Empty Signal on hopper end
- A ball valve in the drop end acts as a safety backup



11/5/2024

Chore-Time Group, A Division of CTB, Inc.

© 2024 Chore-Time

17





# Chore-Time UltraMale Breeder Feeder

- Uniform feed distribution
- Feed is distributed quickly throughout the house
- Easy adjustable feed level (Patent Pending)
- Presentation feeding or stationary trough height
- Easy male inspection during feeding
- Longer eating time equals less stress for males and females



11/5/2024

Chore-Time Group, A Division of CTB, Inc.

© 2024 Chore-Time

19



# Chore-Time UltraMale Breeder Feeder

- Easy installation and management
- Suitable for double or single-sided eating
- Single trough, space-saving design
- Hopper can be installed at the beginning or in the middle of the feed line
- Customizable lengths up to 600 feet (182.9 meters) with one or two motors



11/5/2024

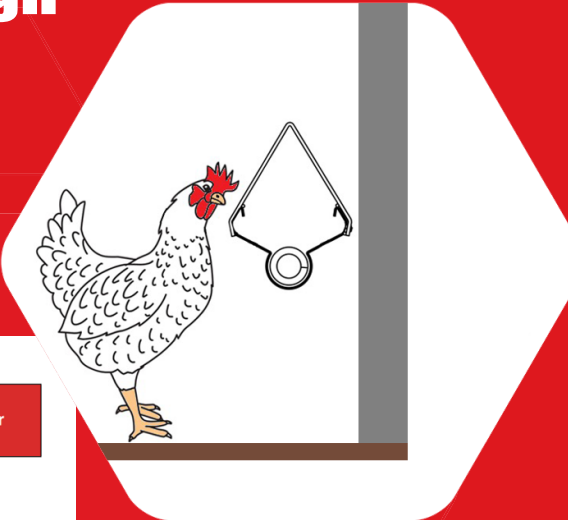
Chore-Time Group, A Division of CTB, Inc.

© 2024 Chore-Time

20



# Feeding From One Side of the Trough



## UltraMale™ Line Lengths and Bird Numbers (single sided eating)

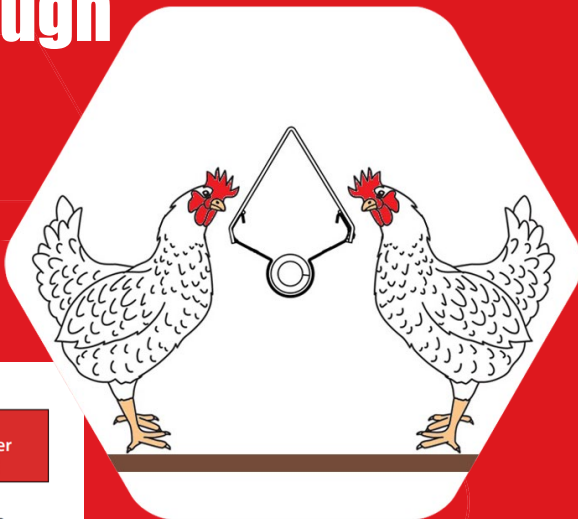
Boot	Feeder "L" FT	Feeder "L" m	Number Male BIRDS	Pounds of Feed in HOPPER	kg of Feed in HOPPER	Hopper SIZE	
Single Boot 300 ft. (91.4 m) +Max	200	60.96	300	99	45.00	28358 200 lb./90.7kg	
	240	73.15	360	119	54.00		
	280	85.34	420	139	63.00		
	300	91.44	450	149	67.50		
Twin Boot Split Line	340	103.63	510	169	76.50		
	380	115.82	570	188	85.50		
	400	121.92	600	198	90.00		
	440	134.11	660	218	99.00		
	480	146.30	720	238	108.00		28360 300 lb./136kg
	500	152.40	750	248	112.50		
	540	164.59	810	268	121.50		
	580	176.78	870	288	130.49		
600	182.88	900	298	134.99			

\*Based on a spacing need of 8 inches (20 cm) following management guidelines, (Cobb and Aviagen) per bird and .33 lbs. (150 g) of feed per bird.





# Feeding From Two Sides of the Trough



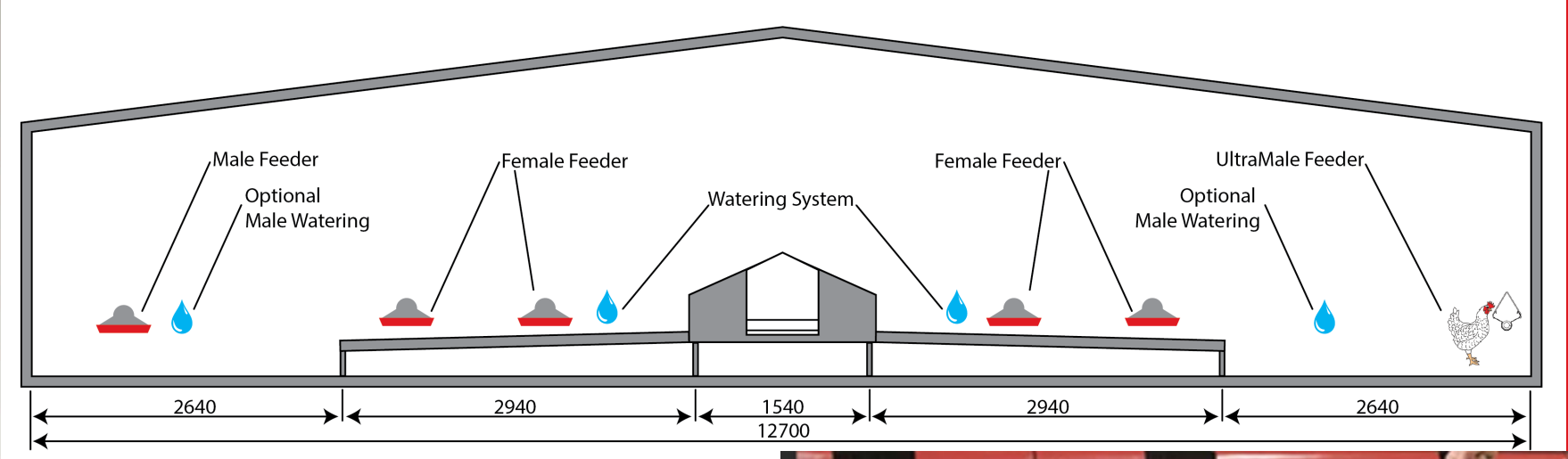
## UltraMale™ Line Lengths and Bird Numbers (two sided eating)

Boot	Feeder "L" FT	Feeder "L" m	Number Male BIRDS	Pounds of Feed in HOPPER	kg of Feed in HOPPER	Hopper SIZE	
Single Boot 300 ft. (91.4 m) Max	200	60.96	400	132	59.87	28358 200 lb./90.7kg	
	240	73.15	440	146	66.22		
	280	85.34	480	159	72.12		
	300	91.44	600	198	89.81		
Twin Boot Split Line	340	103.63	680	225	102.06	28360 300 lb./136kg	
	380	115.82	760	251	113.85		
	400	121.92	800	265	120.20		
	440	134.11	880	291	131.99		
	Twin Boot Split Line	480	146.30	960	317	143.79	28360 300 lb./136kg with 36319 Extension Kit
		500	152.40	1000	331	150.14	
		540	164.59	1080	357	161.93	
		580	176.78	1160	384	174.18	
	600	182.88	1200	397	180.08		



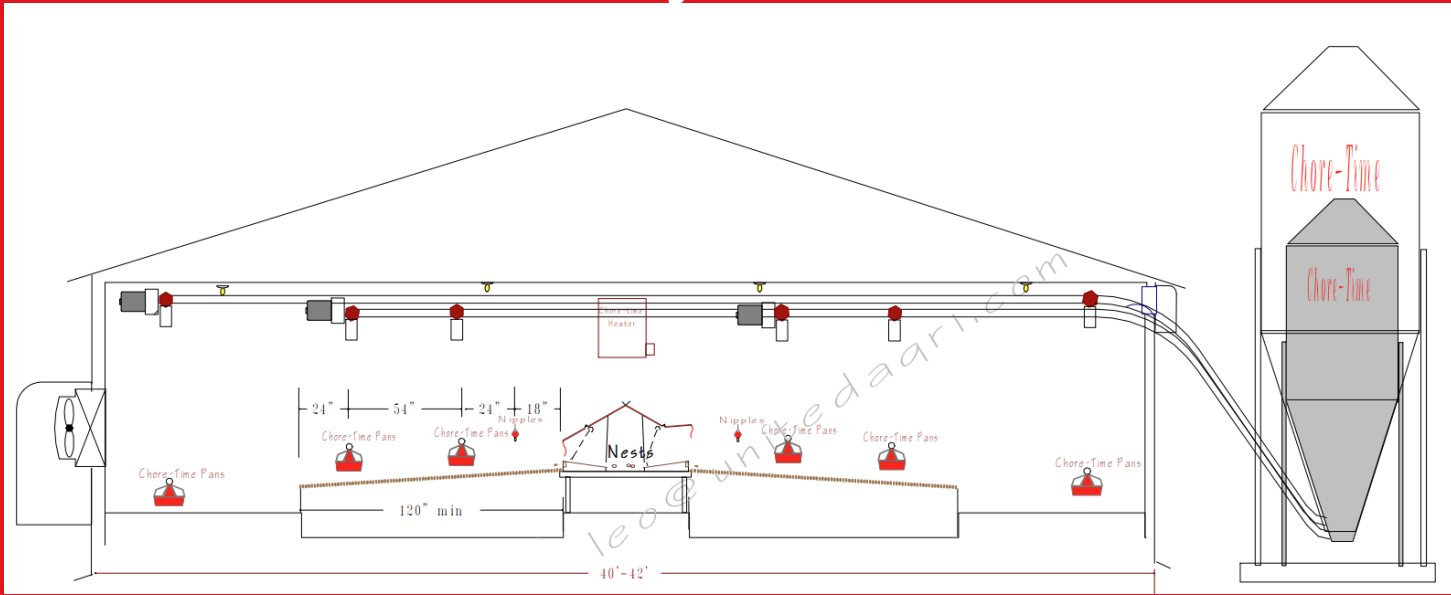


# Community Nest House Design

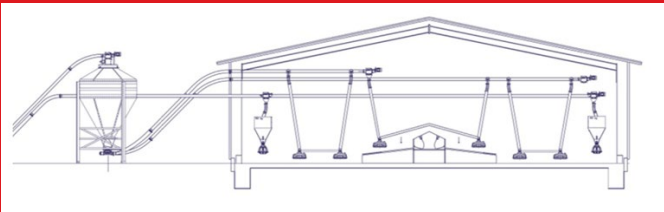




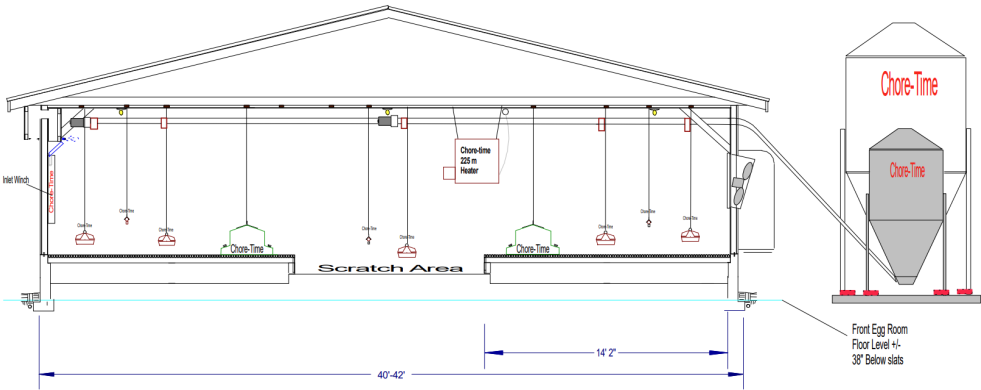
# Layout



- 40-55 % slatted area, latest EU trend: less
- Female feeding on the slats
- Watering (females) in front of nest!
- Jump height max 45cm
- One row nest max house width 15M
- Slope at least 6 Degree incline max  $\pm 9$









# Why community nest instead of single hole?





## Nest comparison Canada, Shenandoah vs

### Chore-Time Valego community nest:

- 3 conventional Shenandoah barns, 4 CT community nest houses.
- On average Birds ship out @ 58-60 weeks
- Calculates Data based on Body to Eggweight
- 2 Solid years of proven data
- Farmers are paid on a Sellable Chick 80-83% Flock Average per Egg
- Eggs/Hen x Average % x 75¢

### Data, results, Shenandoah layout:

- More labour
- More pileups
- 81.79 Hatch @34 weeks
- 114.5 Index
- \$41.80 Net/Bird

### Data, results, Chore-Time community nest:

- Cleaner eggs
- Less Floor/Roost Eggs
- 87% Hatch @34 weeks
- 120.7 Index
- \$46.98 Net/Bird, a \$5/Bird extra per flock.





# House stock density.

Automation and nest type	Average stocking density in a broiler breeder house	
	hens/m <sup>2</sup>	ft <sup>2</sup> /hen
no automation	4.5	2.4
automated nest with individual compartments, 'US style'	5.5 to 6	1.8 to 1.95
automated group nest, 'EU style'	6.5 to 7*	1.55 to 1.65*
	* May vary per region, depending on climate	





# Production of HE & Chicks / m<sup>2</sup> based on bird density

Fem/m <sup>2</sup>	HE/m <sup>2</sup>	Chicks/m <sup>2</sup>	% Increase
5	795	670	-10%
5.5	875	737	Standard
6	954	804	+9%
6.6	1049	884	+20%
7	1113	938	+27%
8	1272	1072	+45%

(159 HE-134 chicks-60 wks of age- Top25% Worldwide)





# Differences between individual And community nests

Comparison	Individual nest	Community nest
Floor eggs	1-6 %	1-3 %
Density ♀♀/m <sup>2</sup>	5.0-6.5	6.5-8.0
Investment ♀	US\$ 34	US\$ 28
Investment m <sup>2</sup>	US\$ 188	US\$ 182
Return investment	6.6%	11.8%
Return US\$ / ♀	US\$ 2.25	US\$ 3.26 (+45%)

1 Sqm = 10,76 SqFt





Thank you for your attention

