ESHET EILON
Advanced Grading
& Packing Technology



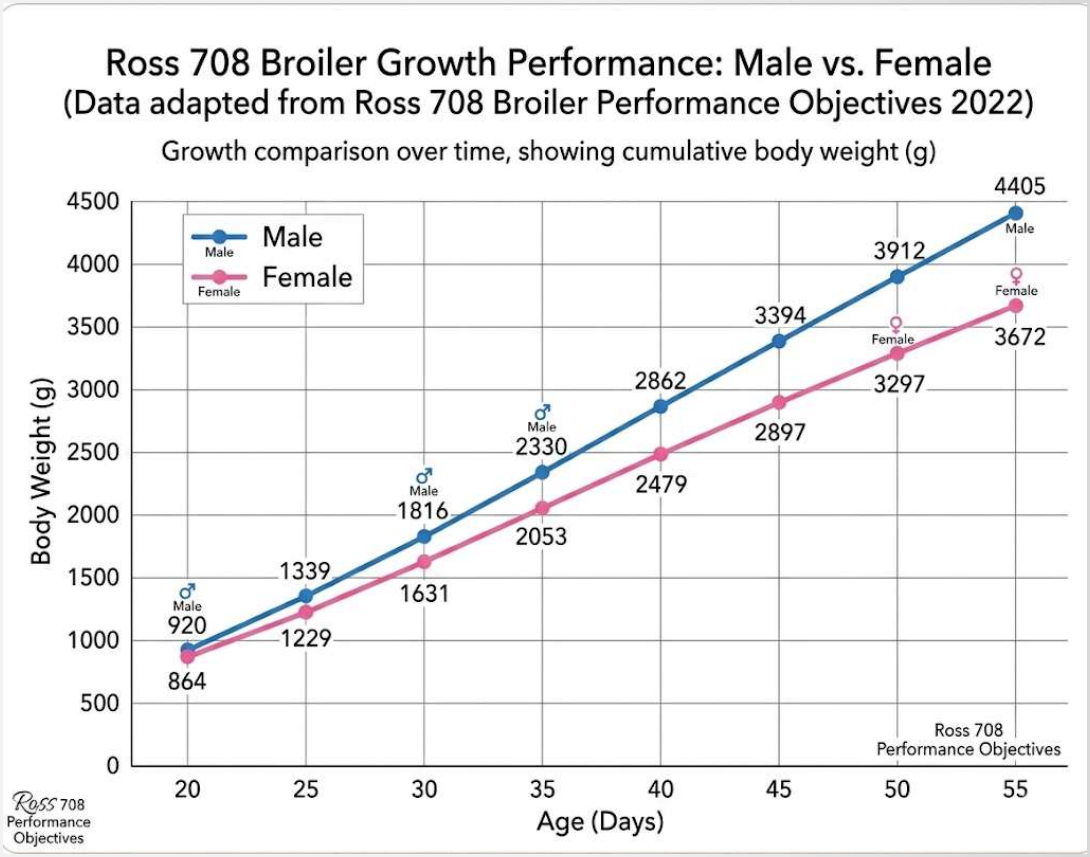
Chick sorting

By gender, quality and weight



Raising broilers separately – why?

- ☑ Optimal nutrition by gender. 58% raising cost is feed. In the last 8 years, a 35% increase in the feed price.
- ☑ Optimized Marketing Age: Hitting peak target weights for maximum performance returns
- ☑ Maximum Breeding Efficiency: Perfect space utilization & input savings
- ☑ High **uniformity** in the processing plant - reducing waste
- ☑ Product uniformity – marketing



WingScan Value Proposition: Ross 308 & 708

Ross 308	
Producer Assumptions	
Total Chicks Using WingScan™ per Year	**105,300,000**
× Livability	**95.0%**
÷ Number of Plants (One male, One Female)	**2**
Birds to Each Plant per Year	**50,000,000**
Producer Value	
Total Annual Value FCR	**$1,653,750**
Total Annual Value from Yield Improvements	**$8,130,000**
WingScan™ Incremental Value Creation	**$9,783,750**
WingScan™ Annual Cost at $15/1000 Chicks	**($1,500,000)**
Net Cost Improvement for the Poultry Producer	**$8,283,750**
Customer ROI	**6.5X**

Ross 708	
Producer Assumptions	
Total Chicks Using WingScan™ per Year	**105,300,000**
× Livability	**95.0%**
÷ Number of Plants (One male, One Female)	**2**
Birds to Each Plant per Year	**50,000,000**
Producer Value	
Total Annual Value FCR	**$4,147,500**
Total Annual Value from Yield Improvements	**$9,817,500**
WingScan™ Incremental Value Creation	**$13,965,000**
WingScan™ Annual Cost at $15/1000 Chicks	**($1,500,000)**
Net Cost Improvement for the Poultry Producer	**$12,465,000**
Customer ROI	**9.3X**

Broiler gender sorting in the world

- Current method rely on slow, manual-labor feather sorting
- In the absence of skilled personnel, technology is needed
- In Brazil, skilled and cheap labor is available.

  about 90% of the broiler is sorted
- Only 10% of broiler chicks in the world are currently sorted



Eshet Eilon

Expertise in automation and high capacity

Wide range of products

Customers in 40 countries

50 years of experience in the design and manufacture of electro-optical sorting systems



Development of the chick sorting machine

- Building on the company's experience in automation, optics and software
- Precise development based on artificial intelligence with the assistance of the Chief Scientist
- Operating commercially for more than two years
- Patent, a different approach from others
- Continuous improvement and upgrading: from learning market needs and customer demands



System Capabilities

1/ Gender identification with high volume and consistence high accuracy

2/ Sorting out of chicks with quality defects

3/ AI-powered image processing for continuous improvement



4/ Individual weighing of each chick and the possibility of dividing it by weight

5/ Big Data: Distribution of chick weights and calculation of average and CV- for each flock

6/ Integrates with the existing equipment in the hatchery

7/ Filling chicks to the box according to number or density (weight of chicks in a crate)

8/ Hourly output according to customer needs

Improving livability

livability : Day one Quality Control

- Individual Chick Audit
- Eliminating Day-1 Failures: Removing the 1.5%–3.0% weak/underweight outliers
- Unlike standard systems that look only at gender

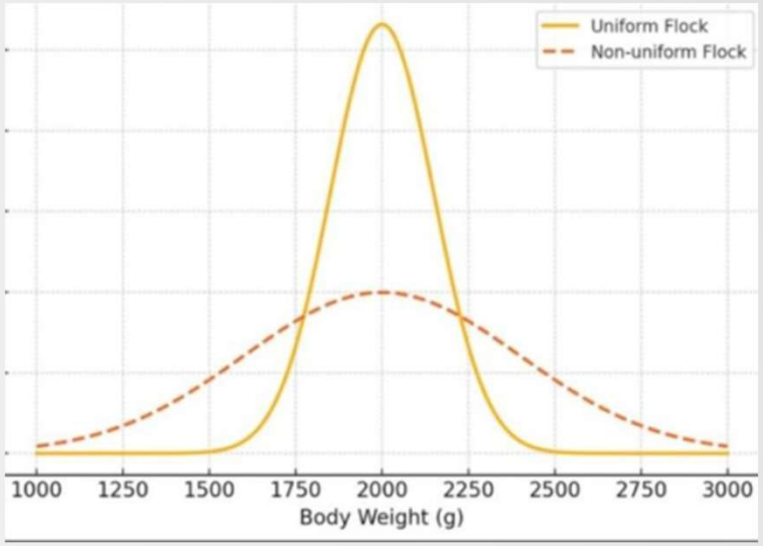





Precision Uniformity

Beyond Gender: Unlimited Sorting Flexibility

- The Uniformity Driver: Maximizing 100% mechanical deboning yield
- Multi-Dimensional Logic: Gender + Weight + Quality integrated
- Custom "Weight Brackets": Categorizing by Heavy, Standard, or Small
- Zero Limitation: Modular setup configured to your logistics

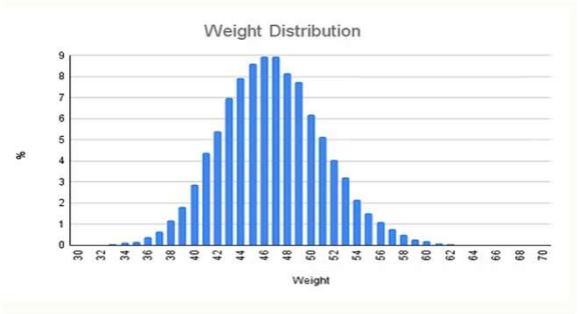











Weight Distribution
%
0
1
2
3
4
5
6
7
8
9
30
32
34
36
38
40
42
44
46
48
50
52
54
56
58
60
62
64
66
68
70
Weight

System Advantages

- Constant accuracy in sorting
- Weighing and quality check of each chick
- AWF – 1/3 chick stress compered to alternatives
- Data-driven reports
- Analyzing data for improvement and problem-solving
- Fast service and simple maintenance
- Automatic removal of eggshell residues.

Breeder Report

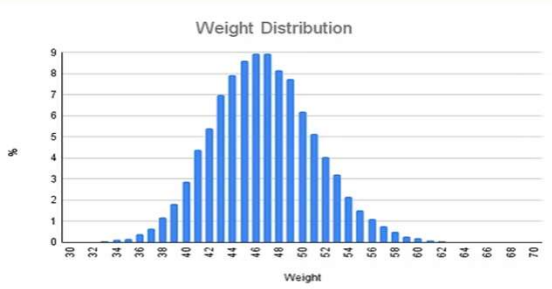
Date: 01/01/2025
Sorting time: 06:25- 07:40
Flock : 605
Breeding Flock Age: 50

Number of Chicks: 72,000
Male: 49% 35,280
Female: 50.52% 36,374

Average Weight: 46.3 g
Standard Deviation: (SD) 4.7)
Coefficient of Variation: (CV) 10.2)

Defective chicks: 0.48% 346

Special Breeder Guidelines: No



System capacity

There are several machine sizes according to customer needs:

- 2 lane, for sorting up to 10,000 chicks per hour
- 4 lane, for sorting up to 30,000 chicks per hour
- 6 lane, for sorting up to 50,000 chicks per hour
- 8 lane, for sorting up to 70,000 chicks per hour

Combining several units into one unit is possible.

The number of outputs, for receiving several sorting groups, is unlimited, according to customer request



For more information

avishay@eshet.co.il
www.chicksort.tech

ESHET EILON
Advanced Grading
& Packing Technology