

Mechanized Defeathering and Egg Sorting

Efficiency Unleashed: Poultry Processing, Simplified



Defeathering involves the use of machines with rotating metal discs and rubber fingers, efficiently removing feathers in 30 seconds. Egg sorting machines use weight-sensitive belts, ensuring precise grading based on quality parameters like weight, color, shape, and cracks.

This technology is **TAAT1 validated**.

8-9



Scaling readiness: idea maturity 8/9; level of use 9/9

Project adoption

The technology has been integrated in the **ENSURE project**: in 7 regions of the East African Community

Inclusion assessment 4

Climate impact 4

Problem

- Time-consuming and inaccurate manual defeathering and egg sorting processes
- Delayed chicken processing reduces productivity, feed efficiency, and leads to rushed sales at lower prices, affecting profitability.
- Manual methods struggle to meet grade requirements for different poultry types and egg grades, impacting market acceptance.
- Manual egg sorting increases breakage risk, causing losses and affecting the overall quality of graded eggs.

Solution

- Mechanized machines remove feathers in 30 seconds, enhancing productivity.
- Quick defeathering maintains product quality, avoiding rushed sales.
- Automated sorting reduces costs, attracting premium prices for eggs.
- Machines efficiently handle various poultry types, reducing manual challenges.

Key points to design your program

Steps to Adopt the Mechanized Defeathering and Egg Sorting Technology

- Assess poultry processing needs, market opportunities, and existing challenges in target areas.
- Facilitate access to appropriate mechanized defeathering and egg sorting equipment adapted to local production systems.
- Invest in infrastructure and capacity building, including electricity, water supply, cold storage, hygiene, food safety, and equipment maintenance training.
- Promote inclusion of women and youth while strengthening compliance with food safety and quality standards to improve market access.
- Build partnerships with International Livestock Research Institute (ILRI), poultry cooperatives, extension services, financial institutions, and equipment suppliers to support scaling and long-term sustainability.

5500—7000 USD

Egg sorting machine



Unknown

ILRI
INTERNATIONAL
LIVESTOCK RESEARCH
INSTITUTE

**International Livestock
Research Institute (ILRI)**
Adeniyi Adediran

Technology from

ProPAS

Commodities

Poultry

Sustainable Development Goals



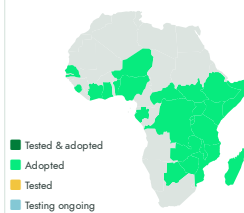
Categories

Postharvest, Equipment, Land preparation

Best used with

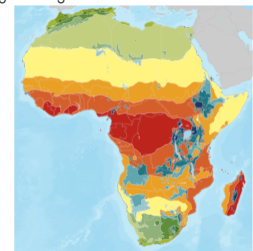
Processing chicken meat for cold storage
See all 1 technologies online

Tested/adopted in



Where it can be used

This technology can be used in the colored agro-ecological zones.



Target groups

Breeders



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