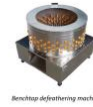


Mechanized Defeathering and Egg Sorting

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

Cost: \$\$\$ **250—550 USD**

defeathering machine

ROI: \$\$\$ **15—20 %**

ROI for defeathering business

5500—7000 USD

Egg sorting machine



Copyright

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 business plan

Incorporating mechanized defeathering and egg sorting technology streamlines poultry processing, replacing labor-intensive manual methods with efficient automated processes. To integrate this technology, businesses need to:

- Invest in defeathering machines and egg sorting systems, ranging in cost depending on capacity and features.
- Evaluating the quantity of equipment needed based on production volume and collaborating with agricultural equipment suppliers or international resellers is essential.
- Technically competent personnel are required and ensure compliance with environmental regulations and waste management procedures.

Gender assessment

4

Climate impact

4

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

Technology from

[ProPAS](#)

Commodities

Poultry

Sustainable Development Goals



Categories

Transformation, Equipment,
Land preparation

Best used with

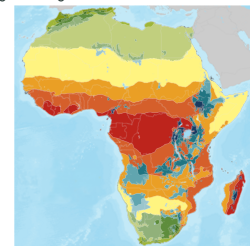
- [Processing chicken meat for cold storage](#)

Tested/adopted in



Where it can be used

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



Target groups



Mechanized Defeathering and Egg Sorting

<https://taat.africa/idq>

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