

Rice Threshing and Polishing Machines: Axial flow thresher and improved quality polishing

Efficient rice threshing and polishing for premium quality grains, boosting income and market access in african communities.

Axial flow threshers utilize a rotating drum to separate rice grain from the surrounding husk, while abrasive polishers remove outer bran layers. Key parts are made of stainless steel for durability and hygiene. These equipment can be powered by diesel/petrol generators or solar installations for easy use in rural areas.



AfricaRice

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Technology from

[ProPAS](#)

Commodities

Rice

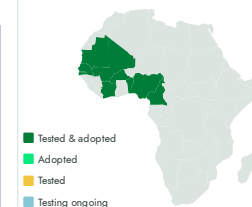
Sustainable Development Goals



Categories

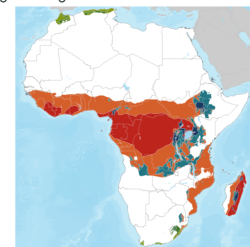
Harvest, Equipment, Post-harvest handling

Tested/adopted in



Where it can be used

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



Target groups

Farmers



This technology is **TAAT1 validated**.

8-8



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

Cost: \$\$

4500 USD

Local thresher

20 %

Losses reduced

15000—20000 USD

Advanced polishers and whiteners

3000 USD

Small bench-top polishers



Patent granted

Problem

- High grain losses due to manual threshing methods.
- Inefficiencies in the traditional polishing process, particularly manual rubbing.
- Time-consuming and labour-intensive artisanal practices.
- Difficulty in processing large volumes of rice in communities.

Solution

- The motorized axial flow threshers reduces grain breakage and loss compared to traditional manual methods.
- The mechanized equipment drastically reduces the time and labour required for threshing and polishing.
- The mobile units are designed to be highly mobile and can be easily transported to even remote rural areas.

Key points to design your business plan

The Axial flow thresher and improved quality polishing technology appeals to manufacturers, resellers, and users (farmers).

- Identify raw material suppliers and efficient transportation methods.
- Source equipment from reputable manufacturers and ensure proper transportation and storage.
- Determine costs and highlight benefits to attract farmers, development projects, and cooperatives.

Gender assessment

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Climate impact

7



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