

# 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.



**Africa Rice Center**  
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Technology from

ProPAS

Commodities

Rice

Sustainable Development Goals



Categories

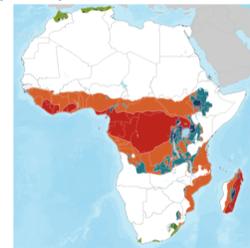
Harvest, Equipment, Post-harvest handling

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

3

1

Climate impact

7



## Rice Threshing and Polishing Machines

<https://e-catalogs.taatafrica.org/com/technologies/rice-threshing-and-polishing-machines-axial-flow-thresher-and-improved-quality-polishing>

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