

TAAT e-catalog for government

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.





Africa Rice Center Sali Atanga Ndindeng

Technology originally documented by

ProPAS

Commodities

Rice

Sustainable Development Goals





Categories

Harvest, Equipment, Post-harvest handling

Tested/adopted in



This technology is **TAAT1 validated**.



Climate impact

Problem

Gender assessment

- 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.

8/9; level of use 8/9

· The mobile units are designed to be highly mobile and can be easily transported to even remote rural areas.

Key points to design your project

The adoption of Axial flow thresher and improved quality polishing offers a solution to enhance agricultural efficiency and reduce labor-intensive tasks. Key steps to integrate this technology include:

- Inform rice farmers, cooperatives and millers about the benefits of motorized threshers and polishers for increasing value addition and market access, and reducing post-harvest costs and losses.
- · Identify suitable setup and size of mobile rice processing equipment
- Establish reliable supply of rice by drawing up contracts and delivery schedules for farmers.
- · Provide loans to community-based and commercial processors for acquiring mobile units.

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

Target groups

Farmers

(Cost: \$\$\$) 4500 USD Local thresher

Losses reduced

20 %

15000-20000 USD

3000 USD

∏IP

Advanced polishers and whiteners

Small bench-top polishers

Patent granted

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http://taatdb-web/gov/technologies/rice-threshing-and-polishing-machines-axial-flow-thresherand-improved-quality-polishing

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Enquiries techs@taat-africa.org