

Flour Milling and Blending Systems for Wheat, Sorghum and Millet

Produce a premium wheat, sorghum and millet flour close to production areas

This technology comprises milling and blending systems that enable the production of premium flour products in both rural and urban areas. Different milling systems are available, meeting industry standards.



INTERNATIONAL CROPS RESEARCH
INSTITUTE FOR THE SEMI-ARID TROPICS

**International Crops
Research Institute for the
Semi-Arid Tropics (ICRISAT)**
Dougbedji Fatondji

Technology from

[ProPAS](#)

Commodities

Sorghum/Millet, Wheat

Sustainable Development Goals



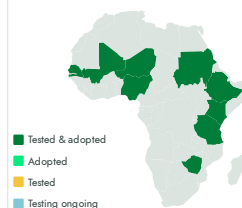
Categories

Transformation, Equipment,
Agri-food processing

Best used with

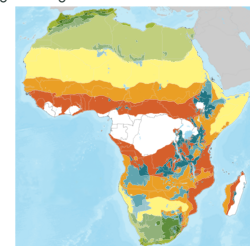
- [Millet and Sorghum
Varieties for Better Nutrition
and Stress Resistance](#)

Tested/adopted in



Where it can be used

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



This technology is **TAAT1 validated**.

7-7



Scaling readiness: idea maturity:
7/9; level of use: 7/9

Cost: \$\$\$ **3,500 USD**

ROI: \$\$\$ **12—15 %**

For small flour mill machine with a capacity of 300 -
500 kg flour per hour

increase in milling yield

38,000 USD

80—82 %

18—20 %



Base price for a fully
automatic flour mill with a
capacity of 30 ton flour per
day

maximal recovery of flour

maximal recovery of bran

Open source / open access

Problem

- The traditional grinding and cooking of millet and sorghum grains are associated with significant time, energy burden, and labor intensity.
- Transport and cost issues arise in the distribution of raw grain to rural consumers.
- A lack of value addition to raw grain for products sold in urban markets and food processing.

Solution

- The milling and blending systems automate the process, saving time, energy, and labor.
- They reduce the necessity to transport raw grain over long distances, lowering costs for rural consumers.
- The flour processing adds value to raw grain.

Key points to design your business plan

To use this technology, consider:

- Costs include around 3,500 USD for a small manual mill
- Approximately 38,000 USD for a fully automatic mill with a 30-ton daily capacity.
- Training on safety and quality is important, and key partners involve agro dealers or manufacturers.
- Estimating profit is crucial for implementation.

Gender assessment

4

Climate impact

3



Flour Milling and Blending Systems for Wheat, Sorghum and Millet

<https://taat.africa/zvo>

Last updated on 19 September 2024, printed on 15 May 2025

Enquiries e-catalogs@taat.africa