

# Flour Milling and Blending Systems Flour Milling and Blending Systems

Produce a premium wheat 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. An abrasive grain mill typically includes a feed-in hopper, roller table for grinding, rotary sieve for bran separation, and a conveyor belt.



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This technology is **TAAT1 validated**.

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

Gender assessment **4**

Climate impact **7**

### 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 project

This technology can be integrated into nutrition projects, offering job opportunities. To implement it, focus on :

- Awareness,
- Product standards,
- Efficient production setups,
- Collaboration with food processor companies.

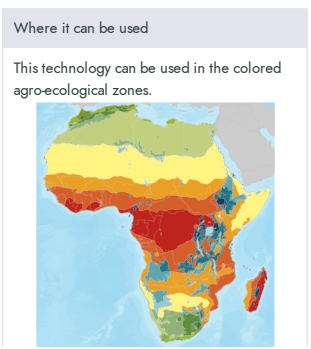
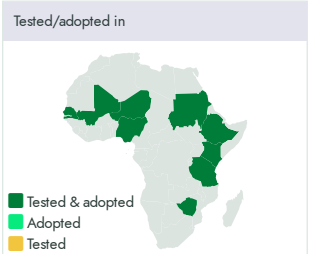
Technology originally documented by  
**ProPAS**

Commodities  
Sorghum/Millet, Wheat

Sustainable Development Goals

Categories  
Transformation, Equipment, Agrifood processing

Best used with  
• [Millet and Sorghum Varieties for Better Nutrition and Stress Resistance](#)



Cost: <b>\$\$\$</b> <b>3,500 USD</b>	ROI: <b>\$\$\$</b> <b>12–15 %</b>
For small flour mill machine with a capacity of 300 - 500 kg flour per hour	increase in milling yield
<b>38,000 USD</b>	<b>80–82 %</b>
Base price for a fully automatic flour mill with a capacity of 30 ton flour per day	maximal recovery of flour
	<b>18–20 %</b>
	maximal recovery of bran
	<b>IP</b>
	Open source / open access

