Advanced equipment for Bean processing Bean Flour and Flour Products

Bean Flour Made Easy

The "Bean flour and flour-based products" technology processes common beans into flour, enhancing their nutrition and shelf life. It offers economic opportunities for farmers and businesses, with scalable equipment suitable for various production scales in both rural and urban settings.





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					Technology originally documented by
This technology is	s <u>TAAT1 validated</u> .	7.7	Scaling readi 7/9; level of u	ness: idea maturity use 7/9	ProPAS
Gender assessment		Climate	npact		Commodities
		Childle			Common bean
Problem	r		Solution		Sustainable Development Goals
for preparation, reconsumers.	Traditional bean preparation methods remain unattractive despite pre-cooked options due to time and energy constraints. Common beans contain substances that hinder protein, starch, and mineral absorption in the gut, affecting nutrition and digestibility.		 Technology produces popular bean products in Sub-Saharan Africa. Begins with high-quality flour, reducing cooking time and costs. Processing boosts vitamin and nutrient availability. Methods like soaking and pressure cooking enhance bean digestibility. Bean flour prolongs product freshness. 		2 280 2 190228 3 600 PEALING AND MELE BIRG -M/* 13 GLIMAE 4000
					Categories
Common beans co					Transformation, Practices, Agri-food processing
affecting nutrition a			Provides lucrative markets for farmers and	Best used with	
	narvested and tough-to-c illenges in both palatab ncy.	oility and • Opens	reneurs. s new markets, reduces nables new products.	transportation costs,	 <u>Biofortified Beans for</u> <u>Improved Nutrition ></u>
					Tested/adopted in
 Key points to design your project To integrate this technology into your project: Conduct awareness campaigns on the benefits of bean flour technology. Collaborate with local farmers and agri-food companies for a steady bean supply. Establish processing plants with efficient equipment. 					Tested & adopted Adopted Tested
 Provide training programs for operators and workers on safety and quality use. Ensure regulatory compliance with food safety standards and licensing requirements. 					Where it can be used
Consider engaging a team of trainers for installation support, including costs for training and post-training assistance. Develop communication materials like flyers, videos, and radio broadcasts. Additionally, consider incorporating "Biofortified beans for improved nutrition" into your project to address key challenges and contribute to a healthier, more resilient future.					This technology can be used in the colored agroecological zones.
Cost: \$\$\$ 370 USD					
Small motorized bean dehullers that can process 50 kg hour-1					
4 USD	370 USD	1,500 USD	2,000 USD	∏ IP	
Bean flour per kg	Small motorized bean dehullers that can process 50 kg hour-1	Soaking tanks of 500 liter	Mills with a capacity of 300 kg hour-1	Open source / open access	

