# Motorized Crop Residue **Processing for Animal Feed**

Powered Crop Residue Processing for Livestock Feed Enhancement

This technology is a motorized equipment for processing millet and sorghum residues into animal feed. It's self-powered, cost-effective, and easily transportable, requiring only two operators. By efficiently processing crop residues, it integrates crop and livestock enterprises, enhancing resource efficiency. The machine can process 1 to 1.5 tons of stover per hour.





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Technology originally documented by

ProPAS

Commodities

Sorghum/Millet

Sustainable Development Goals







#### Categories

Pre-production, Equipment, Animal feed production

### Best used with

• <u>Dual-purpose Varieties for</u> Crop and Livestock Integration >







This technology is **TAAT1 validated** 

8.8

Gender assessment



Climate impact



## **Problem**

- Manual processing of millet and sorghum stem residues is time-consuming.
- Unutilized residues are often burned, leading to soil carbon depletion and air pollution.
- Traditional feeding methods result in sub-optimal animal diets and digestion.
- Storage and preservation of feed face challenges.
- Dryland areas in Sub-Saharan Africa lack sufficient feed biomass due to low rainfall.

## Solution

- Efficiently processes crop residues into feed or
- · Reduces wastage and maximizes livestock nutrition
- · Enhances animal health and productivity
- Improves soil health and agricultural sustainability
- · Compacts feed materials effectively, enhancing flavor and nutritive value
- · Particularly beneficial for low rainfall regions in Sub-Saharan Africa

O IP

Unknown



Cost: \$\$\$ 1250-1700 USD/unit

Self-contained stover chopping and crushing machine

10 years

22,000 USD

Production value in 6

1,000 - 1,500

USD

cutters that can handle all types of cereals

Tested/adopted in



Where it can be used

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



Lifespan

Alternative motorized

Motorized Crop Residue Processing for Animal Feed https://e-catalogs.taat-africa.org/org/technologies/motorized-crop-residue-processing-for-animal-

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