

# Mechanized Threshing Operations

Efficient Threshing for Productive Farms

Mechanized Threshing Operations is equipment used to separate seeds or grains from harvested plants. It utilizes small petrol engines to process seeds and grains rapidly, offering a significant improvement in efficiency.



The thresher consists of a 1) feed chute, 2) threshing chamber, 3) exit chute, 4) blower, 5) seed collection chute, and 6) petrol engine.

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This technology is **TAAT1 validated**.
 8•8
 Scaling readiness: idea maturity 8/9; level of use 8/9

Gender assessment 4

Climate impact 2 3

### Problem

- Manual threshing methods are inefficient, requiring approximately four hours of work to recover 100 kg of seed.
- Reliance on manual labor for threshing may limit agricultural productivity and efficiency.
- Limited availability or access to multi-crop threshers may hinder the processing of diverse crops.

### Solution

- Different types of crops can be processed based on the screen mesh used in the thresher.
- Mechanized threshing is labor-efficient, processing 150 to 500 kg of saleable product per hour, depending on the crop.
- Processing times vary based on the size of the seed, with smaller seeds being processed more rapidly.

### Key points to design your project

The Mechanized Threshing Operations technology offers an efficient solution for separating seeds or grains from harvested plants, reducing labor requirements and costs. Key steps to integrate this technology into your project include

- Promoting awareness, providing training,
- Evaluating costs and quantities needed,
- Offering ongoing support, developing communication materials, and collaborating with relevant stakeholders.

**50 %**  
Threshing cost reduced

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**225 kg per hour** IP

Maize processing No formal IP rights

Technology originally documented by  
ProPAS

Commodities  
Common bean

Sustainable Development Goals

Categories  
Prevention & storage, Equipment, Post-harvest handling

Best used with

- [Hermetic Bags for Safe Storage of grain >](#)

Tested/adopted in

- Tested & adopted
- Adopted
- Tested

Where it can be used

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

