

# MINERAL FERTILIZER MICRO-DOSE MECHANIZATION

Microdosing of fertilizer reducing time, labour and cost, while increasing production

## TECHNOLOGY / SOLUTION



The equipment is a motorized planter for the application of microdoses of mineral fertilizers and seeds. It is an "All in one" solution which allows applies microdoses of fertilizer and sowing of the seeds at the same time.



## PROBLEM / ISSUE SOLVED

- Up to 65% of productive land is degraded in Africa
- Low agriculture productivity
- Fertilizer is often difficult to access for small scale rural farmers and expensive when is accessible
- Poor fertilizer use efficiency
- Manual application of fertilizers and the sowing of seeds is currently a labor intensive and time-consuming activity



**GOOD FOR**  
Small-scale farmers,  
Commercial farmers



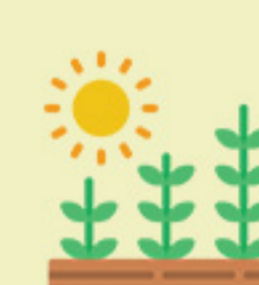
## BENEFITS

- ✓ Adapted to the sub-Saharan African regions
- ✓ Real-time work required (sowing and application of microdoses) for 1 ha can be reduced from 12 person-days when fertilizers are applied manually to a 1 person-day saving cost of hired labor
- ✓ Helps farmers plant seeds in straight rows and use the appropriate quantity of seeds and fertilizer for each pocket, optimizing rentability
- ✓ Low operating cost and increase the yield of millet and sorghum by 40% to 120% as compared to traditional surface broadcasting

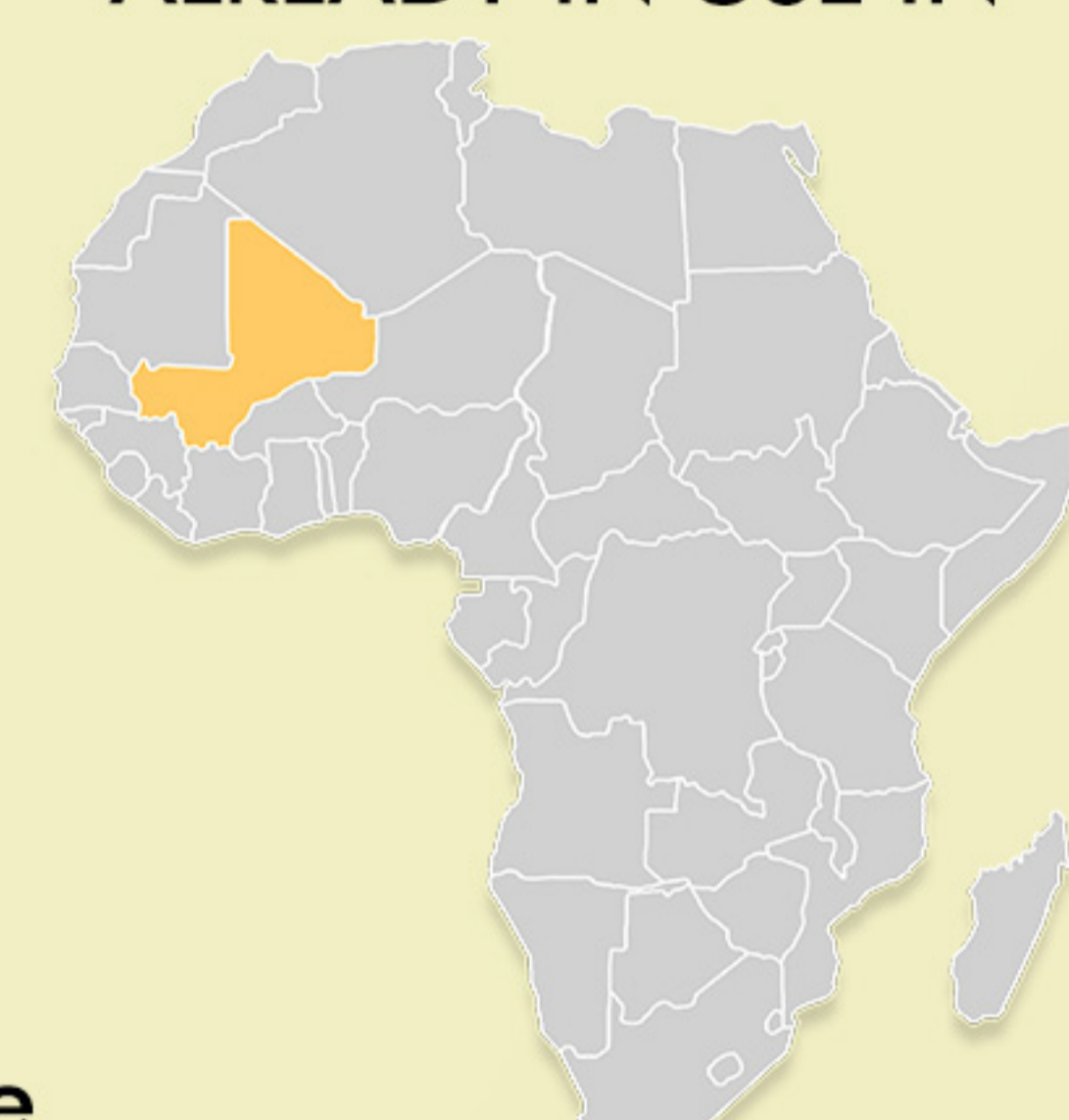


**Mechanized farming**  
Speciality

ALREADY IN USE IN



**Cereals, legumes,  
vegetables**  
Commodity



Mali



**US\$ 915 - \$1000**  
Purchase price



**30% increase in income**  
Added value

## HOW DOES IT WORK?

The motorized planter is an engine equipped with a hopper (containing the distributor disc), 4 wheels, sowing coulter, chute, skimmer and press wheel. The plotter determines the spacing between two sowing lines. The distributor disc applies the fertilizer in micro-doses and plants the seed at regular interval between two pockets.

It requires a minimum fuel consumption (gasoline/petrol) of 0.5 to 2.5 liters/ha.

