



The importance of a cleaning mechanism in seed metering unit of a planter

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Cleaning mechanism: The cleaning mechanism is a new technique which helps to clean the cells of the seed metering device of the planter. It is equipped with the seed metering device. It consists of a spring and a ball.

Need of cleaning mechanism : The various types of planters have been developed and is available in the market for each crop like maize planter, cotton planter, pneumatic planter, potato planter, etc. The main difference in these planters is of the metering mechanism for picking and dropping of the seeds. The performance of the planter depends on its metering mechanism. These planters are working satisfactorily in the field but if there is no effective cleaning mechanism for the seed metering device, then the chance of missing of the seed increases due to the blockage of the cells. That's why there is a need for the effective cleaning mechanism which will take care of the missing and minimize it.

Objectives:

– To clean each cell of the seed metering device of the planter.

– To avoid the chance of missing the plant due to blockage of the cell in the seed metering device.

– To provide the smooth flow of seeds out through the metering mechanism

Benefits :

– It reduces the chance of missing during the sowing operation with the planter.

– It increases the number of plants per hectare by maintaining an appropriate distance between them.

– It increases the farmer income by reducing the missing.

– There is no need to walk behind the planter to check the chance of missing since it cleans each cell of the metering mechanism in each revolution of the mechanism.

Conclusion: The adoption of this technology is a must and is required to improve the performance of the planter by reducing the chance of missing. Some cells of the seed metering device get blocked and lead to missing of the seeds, as a result of this, production decreases.

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