

Decomposing Unit for Agricultural Waste

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Abstract: *The decomposer unit is an essential part of the process that turns organic waste and raw materials into fertilizers, which makes a big difference in waste management and sustainable farming methods. This unit takes raw materials, mostly organic waste, and starts a sequence of actions to turn them into fertilizer that can be used. Organic matter breaks down chemically during decomposition, producing simpler chemicals that are high in potassium, phosphate, and nitrogen—three important nutrients. For the purpose of increasing soil fertility and fostering plant growth, these nutrients are essential. This process is optimized by the decomposer unit, which guarantees effective raw material usage and reduces waste*

Keywords: control device, decomposition monitoring, organic material, fertilizer production, sustainability