

# ***DESIGN AND ANALYSIS OF TRANSMISSION SYSTEM ON GOAT DROPPING MACHINE CAPACITY 50 KG/HOUR***

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## ***ABSTRACT***

*In general, the process of chopping goat manure in the community still uses the traditional system, where the traditional system has several drawbacks, namely a small work capacity where chopping goat manure takes time. This traditional method of enumeration still has many shortcomings and weaknesses, including a lot of effort and a long time. Designing and making automatic goat manure chopping machines with blade variants. To find out how efficient the goat manure chopping machine is. This research was carried out based on four stages, the first was field observation, the second was planning and design, the third was assembling the machine, and the last was testing. The goat manure chopping machine uses 1 shaft as a retaining pole for the position of the blade with a vertical blade variation. This machine is designed to simplify and speed up the process of chopping goat manure with a capacity of 50 kg/hour. The rotation of the chopping machine shaft is 1125 rpm and the engine speed is 3000 rpm and can produce capacity, efficiency of the goat manure chopping machine by varying the slanted blade shape can grind the dirt well.*

***Keywords:*** Goat Droppings, Enumerator, Time, Blade, Capacity, Shaft