BUILT AND DESIGN OF TERUNG’S MUCUS CLEANING MACHINE WITH 50 KG/PROCESS AS A RAW CHIPS

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Abstract

Small industries which produce chips of terung in the mucus clearance process is still using the manual method, that is by being trampled to require a lot of effort and a lot of cost. Alternatives to increase efficiency and productivity is to make terung’s mucus cleaning machines.

The process of making this machine is started by looking for a long dimension of the drum is sufficient for 50 kg of terung, look for the engine power is required, determine machine element component and test the long process of cleaning terung’s mucus.

Calculation results obtained galvanized drum diameter 575 mm and 600 mm height. Power needed by the mucus cleaning machines terung is 3.06 HP. Belt use is the single V belt type A. Outer diameter of the pulley is 66 mm and 141 mm. Shaft used types of carbon steel and machine construction bearing age is 51,337,062 days. The experimental results obtained by the machine time required for the cleaning process once terung is 25 minutes.

Key words : cleaning, mucus, terung, chips