PROTOTYPING CHICKEN FEATHER THRESHER MACHINE WITH CAPACITY 10 KG/MINUTE FOR ONE TIME PROCESS

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Abstract

The rapid rate of consumption of chicken meat in Indonesia, resulting in the emergence of some problems in the processing of chicken meat. One issue that arises is thresher process chicken feathers, so to increase the productivity of alternative is to built and design quill thresher machine. Planning thresher machine should be able to shed their quill feathers are clean and efficient. Thresing quill uses plucker. Calculation starts from the load test to look for feather and unplug the power then look for force that occur in axle, shaft, pulley, belt, and power of machine.

The results obtained for chicken plucking 43.52 kgf, 5.5HP power of machine, the finals of the plate processor 200 rpm and engine capacity 10kg / minute for one time process.

Key word: quill, chicken ,plucker and axle