DESIGN CONSTRUCT OF TOBACCO CHOPPER MACHINE WITH CAPACITY 948 Kg/HOUR

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Abstract

Tobacco is the main raw material used to make cigarettes. In the manufacturing process, tobacco experience chopping, one of the processes that must be considered to meet quality standards.

The tobacco farmers are still many who do chopping process manually, thus requiring power and a longer time. Therefore, tobacco chopper engine designed to increase productivity chopping.

Making the chopper engine is started from designing cutting knife mechanism. Looking for the cutting forces (through experiment), look for the elements of the engine (belts, pulleys, shafts, etc.), the amount of power a motor that will be used. With a 0.5 HP motor produced 367.5 rpm spin generated capacity 948 Kg / h (dimensional pile of tobacco leaves 150 × 200 mm).

Keyword: Tobacco, Chopper