

ABSTRACT

MAKING PROCESS OF FUNNEL, HOPPER, AND DISCS COVER IN THE CASSAVA CHOPPER MACHINE

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The purpose of Final Project is making of funnel, hopper, and disc awning cover cassava chopper machine. Funnel has function as outlet result of chopped cassava, while hopper has function as passage entry of cassava into the machine, and disc cover is a component that serves as a protective cover and disc blades when the machine is operating.

The method used in manufacturing process funnel, hopper, and disc cover includes the identification of working drawings, preparation of machines and tools, preparation of materials, fabrication process of funnel, hopper, and disc cover, checking of dimension, the assembly process, and test performance.

From result which has been reached is inferential that: 1) The material used to make funnel, hopper, and disc cover is plate stainless steel with thick 0,8 mm; 2) Machines and tools used in making process of funnel, hopper, and disc cover consists of: hydraulic cutting machine, plate bending machine, plate roll machine, hand boring machine, spot welding machine, SMAW welding machine, hand grinding machine, steel ruler, rolled ruler, rectangle ruler, etcher, hand file, hammer, point maker, and vise; 3) Making process of funnel, hopper, and disc cover consists of: gauging process and drawing material, material cutting process, material forming process, boring process, assembly process, painting process, and performance testing; 4) From the test result of funnel making, hopper, and disc cover is obtained data as follows : a) Dimension test : there are a few differences of work substance scale with initial working drawing; b) Test performance: a funnel to function properly as a channel exit successors chopped cassava and chopped to the container, hopper can function well as a line entry of cassava into the machine, and disc cover can act as a protective cover plate and place the blade while it is operating. This machine can chop as much as 40 kg of cassava within 1 hour. The time needed to create a funnel, hopper, and close the disc is 9 hours.

Keyword: funnel, hopper, disc cover, cassava chopper machine.