THE CONSTRUCTION DESIGN OF CORN SHELLER AND CORNCOB CRUSHER MACHINE

Name : 1. ADITYA CANDRA
       2. WARDIYANTO

NRP : 1. 2108 039 003
       2. 2108 039 005

Study Program : Department of D-3 Disnakertransduk
                Mechanical Engineering FTI - ITS

Counsellor Lecture : Ir. Arino Anzip, M.EngSc
Counsellor Instructor : R. Soewandi B.E, SPd

ABSTRACT

In Indonesia, corn is the most second important food crop commodity after rice right now. So that it is not surprising that the productivity of corn has been increasing lately. In the other hand, the corncob has not been widely and perfectly used yet. For overcoming that problem, we need a machine that can support rapid availability of corn after harvest time and hold up the use of the corncob better than just thrown it away.

Before planning the machine, firstly we did some surveys and observations on corn sheller and crusher machine which has already existed. After that, we drew the sketch of a tool that would be created then did the calculations to analyze the components that would be made, so the machine will fit as the desired.

From those planning, has been obtained the motor power 8 Hp with asumption revolution is 1300 Rpm which has the capacity 1.25 ton/hour for corn sheller and 375 kg/hour for corncob crusher.

Key Word : Sheller machine, Corn, Crusher machine, Corncobs