DESIGN OF MELINJO SEED’S OUTER SHELL PEELER MACHINE

College Student Name : Resty Patria Rahma
NRP : 2108 039 012

College Student Name : Erwiyanto Kurniawan
NRP : 2108 039 037

Departement : DIII Mechanical Engineering
DISNAKERTRANSDUK- ITS

Supervisor : Ir. Syamsul Hadi, MT
Instructor : R. Soewandi B.E, S.pd

Abstract

In the process of existing chip-making process of stripping the hard seed coat melinjo. In general, hard seeds melinjo shooting in the production of these chips are still using traditional means. Thus the stripping can not be maximal. To be able to improve the quality and quantity of production that made skinner Melinjo Hard Bean Machine.

To break the hard seed coat melinjo using two rolls where one roll and one roll moves silently and broken seeds exposed to pressure between two rollers. Then peel the beans in the drum as the drum skin was so distressed by loud equipment can be detached from the seed. Then separate the seeds and tough skin with the help of a blower.

From calculations, it takes power 2 hp with 1400 rpm motor rotation to move the rolls with a rotary tool 140 rpm and 350 rpm with a rotating drum. Compressive force at the time of the experiment is 14.72 N and the generating capacity of 1640 kg / jam.

Keyword : Melinjo Seed, Roll, Tool Drum.
( Halaman Ini Sengaja Dikosongkan )