

ABSTRACT

Masrukin,Udhat. 2018.*The Transmission Design of Coconut Shells Peeler Machine*. The Final Project, National Institute Of Technology Malang, Faculty Of Industrial Tecnology, Mechanical Engineering Diploma III.

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People are still using manual way to separate coconut flesh and its shells by splitting coconut fruit and peeling its shell with a machete. The manual way will consume lot of time thus inefficient when this method is employed for copra and grated coconut because of long working process but with less productive result.

This problem encourages the writers to design a device called Coconut Shells Peeler Machine functions as a tool to separate the coconut flesh from its shells. Specifications of this device are as follow: 60 cm in length dimension, 15 cm in wide dimension,50 cm in height dimension. The main propulsion uses electric motor of 1.5 hp, transmission system uses v-belt and pulley by ratio of 5 : 1 with machine capacity of 100 pieces/hour.

The working principal of this machine is to peel the coconut shell by using blocker knife where the shell being pressed down to the edge of the knife.These sharp edge operate by axis that connected to gear tooth-gearbox-belt and pulley by electric motor. By using this machine it is expected to be able to increase the production output for people who have business in coconut processing product.

Keywords : Specification, Peeling, Cracking Gear

TO WHOM IT MAY CONCERN

Our Ref.: 018/ Lab-Bhs/ ITN/IX/ 2018

Herewith,

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Final Project's Title : The Transmission Design of Coconut Shells Peeler Machine

The final project abstract has been translated from Indonesian to English at ITN Language Laboratory Malang. Therefore, it can be legalized for his final project.

Malang, 05 September 2018

Head of ITN Language Laboratory



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