

UNIVERSITI TEKNOLOGI MARA

AUTOMATIC POTATO PEELER

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Diploma

March 2022

ABSTRACT

An automatic potato peeler is a machine that peel of the potato automatically. The idea to create automatic potato peeler come because do not have enough time to clean potato. Besides, need to hire a special worker to peel potato skins in large quantities. The objective of this project is to fabricate an automatic potato peeling machine that can peel of the potato at 1kg of potatoes in 3 minute to ease the work. Besides, to design an affordable potato peeling machine that can speed up the progress of the work. A variety of processes must be carried out in accordance with established procedures to ensure that this project runs smoothly. For the literature review, the articles related to the project are used to conduct my research. Solidwork was also used to design the project. Among the fabrication processes involved are marking, punching attaching screws and polishing. For the results show that this potato machine can operate well but this machine can be improved a little more in the future to get better peeling results. Hopefully, this project will result in an innovation that will make human work easier.

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CHAPTER ONE

INTRODUCTION

1.1 Background of study

Potatoes are becoming increasingly popular in recent years. This is since it is a dish that many people, both children and adults, enjoy. It is also easy to find, whether in a large cafe or a night market. It is also one of those businesses where a small investment can yield a large profit. Because of that there are many potatoes peeler which is marketed out there. For example, straight peeler, swivel peelers, and Y peeler. However, all three of these peelers are manual and still require a lot of energy to use and peeling a large amount of potatoes with manual methods takes a long time. Finally, an automatic potato peeler machine was created to solve this problem. This is because an automatic potato peeler uses an electricity to operate and can reduce manpower

1.2 Problem Statements

Nowadays, potatoes are one of the best -selling foods at night markets or on the side of the road, for example cheese wedges and mashed potatoes. As a trader at the night market, I must prepare a total of 20kg of cleanly peeled potatoes every day. Since I am a trader and at the same time, I am also a student, I do not have enough time to clean potato skins, so I had to hire a special worker to peel potato skins in large quantities. Based on my experience, peel potatoes with the manual method of using the hands takes quite a long time, for example 20kg of potatoes takes about 55 minutes. Based on my observation, peeling potatoes by hand also causes a lot of potato to peel out during the peeling process, this causes the weight of the potatoes to decrease. This caused me to spend more each day to pay a special worker to peel the potatoes.