

UNIVERSITI TEKNOLOGI MARA

**DESIGN, ANALYSIS AND
FABRICATION OF MALAY
TRADITIONAL SNACKS CUTTER**

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ABSTRACT

Malay Traditional Snacks Cutter is a new generation of the best solution any snack sellers can ever ask for. If you were walking at markets, be it a night market or a morning market, there will definitely be at least one hawker who sells Malay traditional snacks such as *kuih talam*, *kuih lapis*, *kuih seri muka* and *kuih kaswi*. This innovation, with simple controls and operations, can simply reduce the cutting process duration, produce more accurate size of each piece of snack and make the cutting process tidier. Most part of the product is made out of aluminium sheet metals. Hence, welding, drilling and milling will be involved during fabrication process. Compared to the conventional methods, this innovation will be a big of help for snack sellers in order to reduce their time and to produce a better quality of snacks for their customers.

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CHAPTER ONE

INTRODUCTION

1.1 Background of Study

Over years, most of snack sellers or hawkers have been using ruler or ruler-like tools and plastic knife to measure and cut a tray of snack into pieces. The process surely took too long and longer if the user prioritizes the size accuracy of each snack pieces to be sold. Some of the hawkers' way to cut the snack is by measuring and marking the size of each piece of the snack by using a long ruler and with that much of time spend on measuring, marking and cutting, the hawkers can possibly get a back pain or sore at parts of their body. Observations have been done and the survey result tells that people is acknowledging that the cutting process of a single tray of snack steal too much of their time. Hence, research which lead to the innovation of Malay Traditional Snacks Cutter was created.

Compared to the conventional method, this innovation will be a big of help for snack sellers in order to reduce their time and producing a better quality of snacks for their customers. With some reference from the concept of stamping, Malay Traditional Snacks Cutter will be able to reduce almost 80% of the usual time spend on the cutting process as it can use electricity to operate. Meaning, the user can just push the start button to start the cutting procedure and stop to immediately end the process. Thus, this innovation, provided with various features, is potentially the new generation of snacks cutter to be introduced to the hawkers or snack sellers to be specific.

1.2 Problem Statement

These problem statements are based statistically on a survey that I have carried out since May 25, 2021. With reference to the survey result, 73 out of 84 people which translated to 86.9% of the respondents have experienced difficulties in cutting a tray of snack and another 11 people which is just 13.1%, a small part of the respondents, have not experienced any difficulty in cutting a tray of snack. This proves that a solution is needed to ease their problems and issues.