

UNIVERSITI TEKNOLOGI MARA

**DESIGN OF ALTERNATIVE WAY TO REFILL
WAFFLE MAKER MACHINE**

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ABSTRACT

Nowadays, people tend to start a business either it is big or small. Food industries are in very high demand right now because of pandemic covid19 because peoples' movement has been limited to the minimum to reduce the spreads of the coronavirus. It causes food stalls and restaurants to get busier than before. It brings advantages to the owner of the food business such as waffle stalls because people reach them daily in a large quantity. This brings disadvantages if they are insufficient facilities provided because the process of making a waffle will take around 5 to 7 minutes, not including the time they have to refill the waffle maker machine. Because of that, it is great to have an auto-refill waffle maker machine as it will save your time and bring more profit to the business. This will ensure your job gets easier and do not have to refill it repeatedly. The machine has provided a container for the waffle mixture attached to it and it will flow to the waffle maker case automatically after pushing the head of pump. The machine will bring benefits to the customer and the business at the same time.

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CHAPTER ONE

INTRODUCTION

1.1 Background of Study

Waffles are a savory dessert that can be served as breakfast, tea time, or as a midnight snack. In the 14th century, they used iron plates to cook the waffle. Waffle makers have been invented to minimize the chances of getting burnt (David Kindy,2019). This device aims to let people cook easily using a waffle maker in a sufficient of time using a multitasking device. It used cast iron and stainless steel as the main idea of the device (WebstaurantStore). The fabrication process will be involved will be welding, drilling, grinding, and drawing. In a nutshell, this device will give huge benefits to the user as the time consumption has been reduced.

1.2 Problem Statement

The main problem of common waffle maker machines that available on the market nowadays is the time consuming for the waffle to be ready. Based on the survey that has been conducted, many people have experienced lining up for a long time to buy waffles at the stall. The waffle maker machine required 5 minutes and above to perfectly cook the waffle. The waffle maker also required the seller to refill the batter manually using a ladle or a jug and spread the batter equally in the baking pan. Furthermore, the batter will be prepared earlier so that seller can pour it easily when needed. This is the main reason why the process will take a long time as the pouring process is done manually by the user.

1.3 Objectives

The main objective of this project are

- a) To design a waffle maker machine that suit customer requirement based on google form that have been distributed
- b) To fabricate the waffle maker machine