

UNIVERSITI TEKNOLOGI MARA

**DESIGN AND FABRICATION OF
FISHCAKE FORMING MACHINE**

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ABSTRACT

Many initiatives from the government to increase national productivity. The government also wants to increase efforts to purchase local goods from small entrepreneurs that are called 'Industri Kecil Sederhana'. This project exists to help small entrepreneurs that need something to ease them for their own small business. The problem was that they had to manufacture more fish cakes in each amount of time than they had before using this product. The quality and size cannot be maintained as well. Therefore, the main objective is to design a fish cake forming machine using Solidwork and to fabricate a fish cake forming machine. In general, the method used is a Morphological chart to select the best concept, a Pugh chart is used to determine the final concept design of a product, search about the material that suitable to use, applied the knowledge and calculation by doing some research and study about the existing product to understand the way it works. The expected result is that the machine will be able to run properly and will be available on the market.

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CHAPTER ONE

INTRODUCTION

1.1 Background of Study

One of the most well-known components in Malaysian cuisine is fish cake. The fact that it offers approximately 585 recipes for making something tasty using fish cake as one of the main components. Yong Tau Foo, for example, is a popular Chinese meal that contains several fish cakes, like Curry Mi and Fried Kway Teow [1]. Furthermore, the Gross Domestic Products (GDP) encourages private sector participation in efforts to increase the contribution of the marine fisheries industry, whether via the development of fish landing complexes or more integrated fish processing, as well as the expansion of the aquaculture business. Fish cake, fish balls, and squid balls are examples of downstream enterprises that need to be established for the export market based on fishery resources. The presence of the private sector is expected to enhance Malaysia's fishing industry dramatically. It also reveals that fish cakes are made and used often in ordinary meals [2]. With the existing method, which still relies on the use of hands, Boiled Fish Paste Manufacturing Apparatus or fish cake shaping machine. Some of the methods demand more time to produce large quantities of fish cakes. If the fish cake is made by hand, it will have an uneven shape and will look to be of lower quality. The shaping machine approach appears complex, but the cost and budget are too high for small enterprises looking to get started and stay in business. Because of the mentioned circumstances, 'Industri Kecil Sederhana' desperately needs a replacement for its forming fish cake machine.