

# PROTOTYPE DESIGN COLLECTION

## SERIES 2



# Prototype Design Collection

Series 2



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UNIVERSITI TEKNOLOGI MARA CAWANGAN JOHOR  
KAMPUS PASIR GUDANG

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# FOREWORD

This digital book on Prototype Design Collection Series 2 (PDC Series 2) is published as a reference design for mechanical engineering students. The designs presented experience a few phases of analysis before fabrication of prototype. Each project summarises the project description, prototype, figures, and design parameter. The design products vary in tools or equipment for household, workshop, entrepreneur, etc. Suggested material and detail of prototype dimension are also mentioned in this book.

It is hoped that this book will assist the students to have more ideas on innovation design products in the future.

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## CHAPTER 116

### Automatic Flour Sieving Machine

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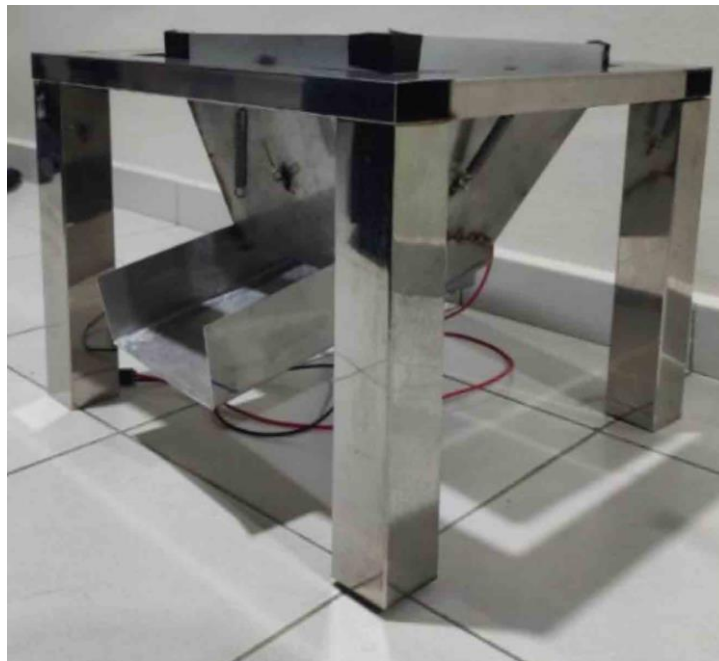
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#### PROJECT DESCRIPTION

The traditional manual sieving method is known for being time-consuming and requiring a significant amount of manual labour. Moreover, it often results in inconsistent flour particle sizes, which can have a detrimental impact on the quality of the flour. To address these challenges, this study proposes the development of an automatic flour sieving machine. The automatic flour sieving machine incorporates mechanical sifting principles along with modern technology to achieve uniform and consistent flour sifting with minimal human intervention. This proposal outlines the design and development of the automatic flour sieving machine, which aims to accurately sift flour to meet specific particle size requirements. The machine will be user-friendly, easy to operate, and low maintenance. It will also have the capability to handle a wide range of flour types and particle size requirements, making it a versatile tool for the bakery and food processing industry. In conclusion, this automatic flour sieving machine has the potential to be a valuable innovation for small bakeries and food processing industries (SMEs) as it can improve the efficiency and consistency of flour sifting.

**Keywords:** *Automatic, Flour, Sieving*

#### PROTOTYPE



### DESIGN PARAMETER

