

PROTOTYPE DESIGN COLLECTION

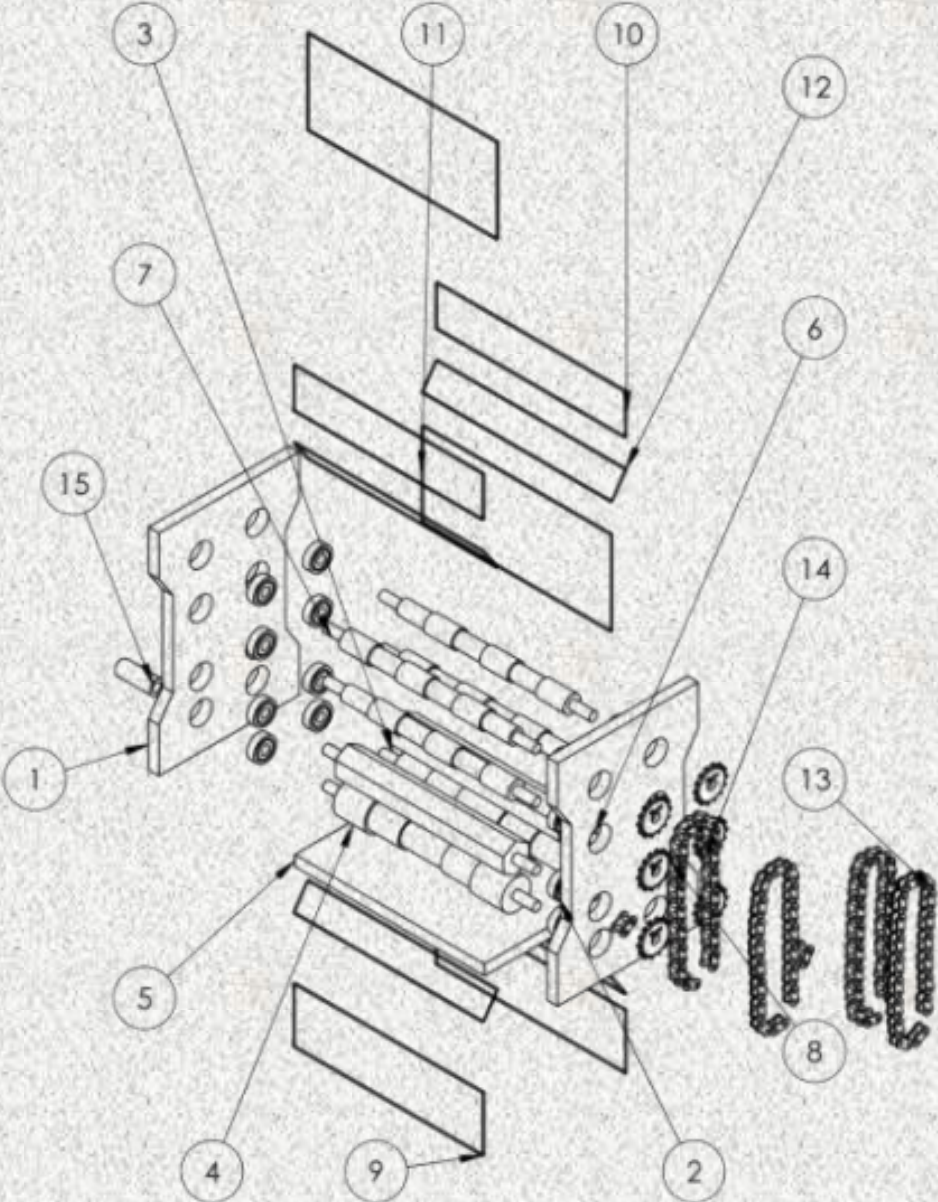
SERIES 4



Universiti Teknologi MARA
Pasir Gudang Campus

Prototype Design Collection

Series 4



Ahmad Najmie Rusli

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FOREWORD

This digital book on Prototype Design Collection Series 4 (PDC Series 4) 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 47

Prototype of a Multipurpose Pan Machine

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PROJECT DESCRIPTION

The Prototype of a Multipurpose Pan Machine is an innovative, automated cooking system designed specifically for small stalls and food preparation environments. This compact machine combines a cutting-focused table with an automatic frying pan, streamlining both ingredient preparation and cooking processes. The cutting table allows for precise chopping and slicing, enabling quick and accurate food preparation. Once ingredients are prepped, they are automatically transferred to the frying pan, which is designed to fry any dish without the need for constant supervision. This efficiency makes the machine ideal for fast paced food stalls, small scale kitchens. Constructed with food-grade materials, including high quality stainless steel, the prototype ensures durability and safety while meeting hygiene standards for food preparation. Stainless steel is easy to clean, resistant to corrosion, and ideal for environments where cleanliness is a priority. The design emphasizes simplicity and practicality with the cutting table serving as a dedicated workspace and the automatic frying pan handling the cooking, allowing users to multitask with ease..

Keywords: *Automated Pan, Multipurpose machine*

PROTOTYPE



DESIGN PARAMETER

