

PROTOTYPE DESIGN COLLECTION

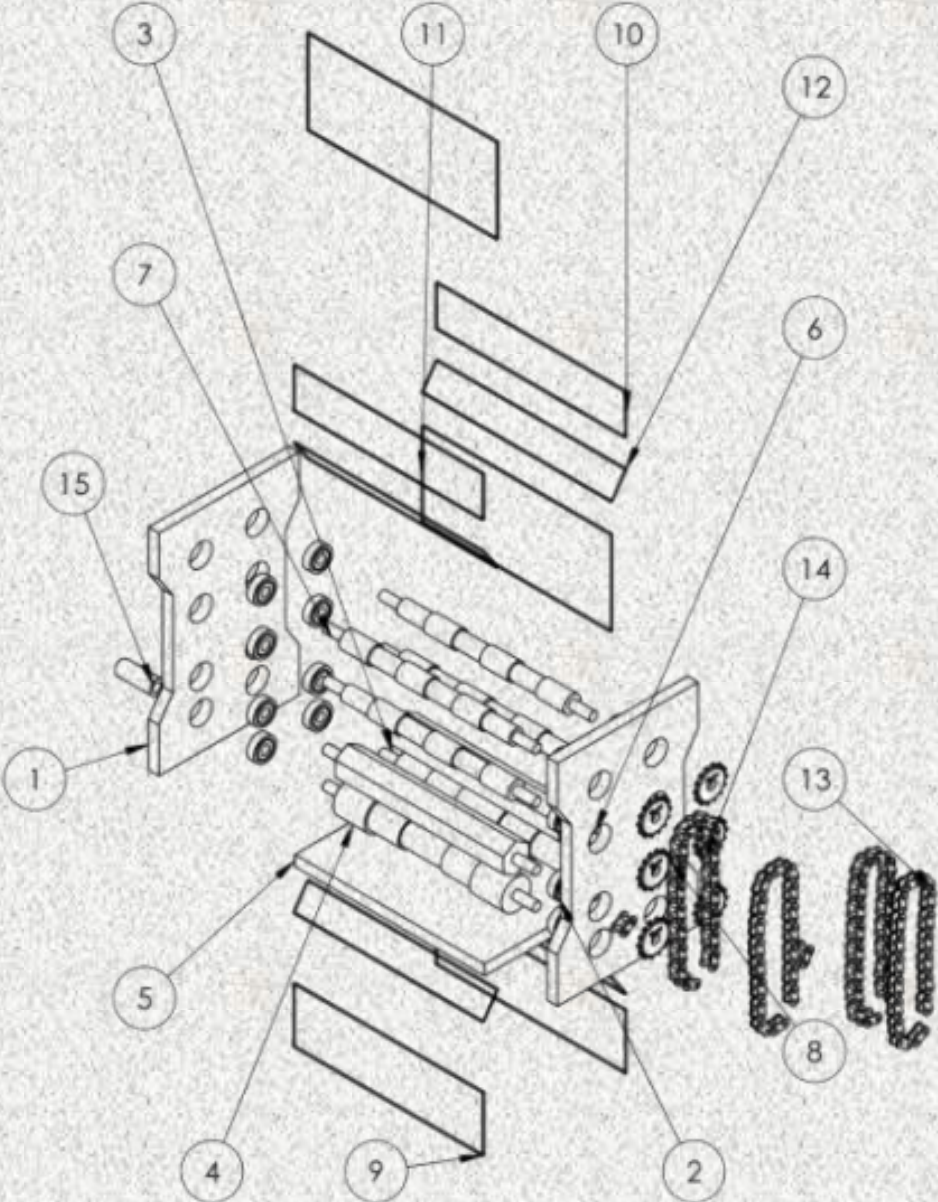
SERIES 4



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 36

Flexydry Rack

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PROJECT DESCRIPTION

Clothes racks are widely used globally for air-drying laundry, especially for clothes that cannot be dried in a dryer machine. Hanging clothes racks are commonly used by those who live in apartment-style houses. However, due to the minimum hanging space provided, the amount of clothes that can be dried at one time is small, which may result in difficulty for individuals living in an apartment. Therefore, the primary objective of this project is to design a flexible drying rack that can offer maximum versatility, functionality, and space efficiency. The methodologies used in this project are requirements analysis and material selection. This project will be using the concept of expansion and compression. By using this concept and mechanism, individuals will be able to dry more clothes at one time.

Keywords: *Flexible, Hanging dry rack*

PROTOTYPE



DESIGN PARAMETER

