

PROTOTYPE DESIGN COLLECTION

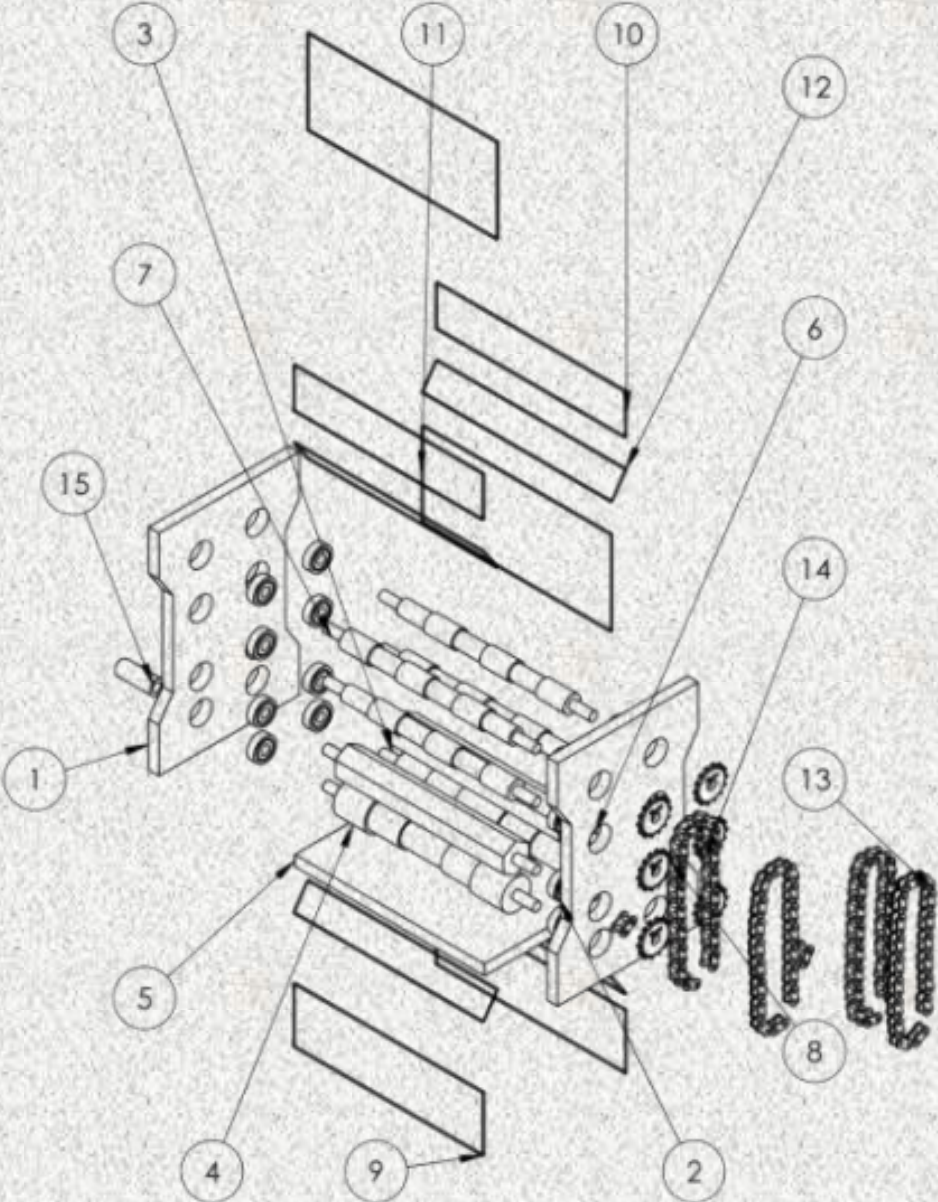
SERIES 4



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 39

Slick & Shine Semi-Automated Shoe Care

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PROJECT DESCRIPTION

Teenagers frequently remain at the forefront of this modern with new fashions and trends. Shoes are accessories that capture the spirit of the culture and the individual. Although teenagers prefer to show off their stylish footwear, maintaining the shoe's shine is challenging. It is because brushing away with polish to remove stains makes people lack manual polishing. The objective is to keep the polishing process simple and guarantee the shoes come out spotless, avoiding moisture and even scent fresh. Moreover, the network of sensors and modern types of equipment are positioned to detect every polishing phase. A light pre-treatment helps dry the shoe after deep polishing. A slight scent offers a finishing touch, so every shoe is a shining and refreshing perfume.

Keywords: *Semi-automated , Shoe care machine*

PROTOTYPE



DESIGN PARAMETER

