

PROTOTYPE DESIGN COLLECTION

SERIES 2



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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 3

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PROJECT DESCRIPTION

Separating egg yolk from egg white is a crucial task in many culinary preparations, but it can be time-consuming and messy. Moreover, many kitchen gadgets available in the market for this purpose are not efficient or easy to use. The objective of this project is to design and develop an egg yolk separator machine that can easily and efficiently separate egg yolks from egg whites, making the task simple and clean for household users. The egg yolk separator machine will consist of a funnel for holding the egg, an egg breaker, a slide for separating the egg white, and a bowl for collecting the egg yolk. The machine will be powered by a power supply, and the eggshell will be deposited in a separate bin. The development process will involve designing and prototyping the machine, testing it for efficiency and usability. The resulting egg yolk separator machine will be a user-friendly and efficient kitchen gadget. The machine's design will be optimized for usability, efficiency, and affordability, making it accessible to a wide range of users. The egg yolk separator machine will be a significant innovation in the culinary industry, providing an easy-to-use and efficient tool for separating egg yolks from egg whites. The machine's affordability and accessibility will make it a useful addition to any household kitchen, simplifying culinary preparations and reducing wastage.

Keywords: *Egg yolk separator, Culinary preparations, Usability*

PROTOTYPE



DESIGN PARAMETER

