

PROTOTYPE DESIGN COLLECTION

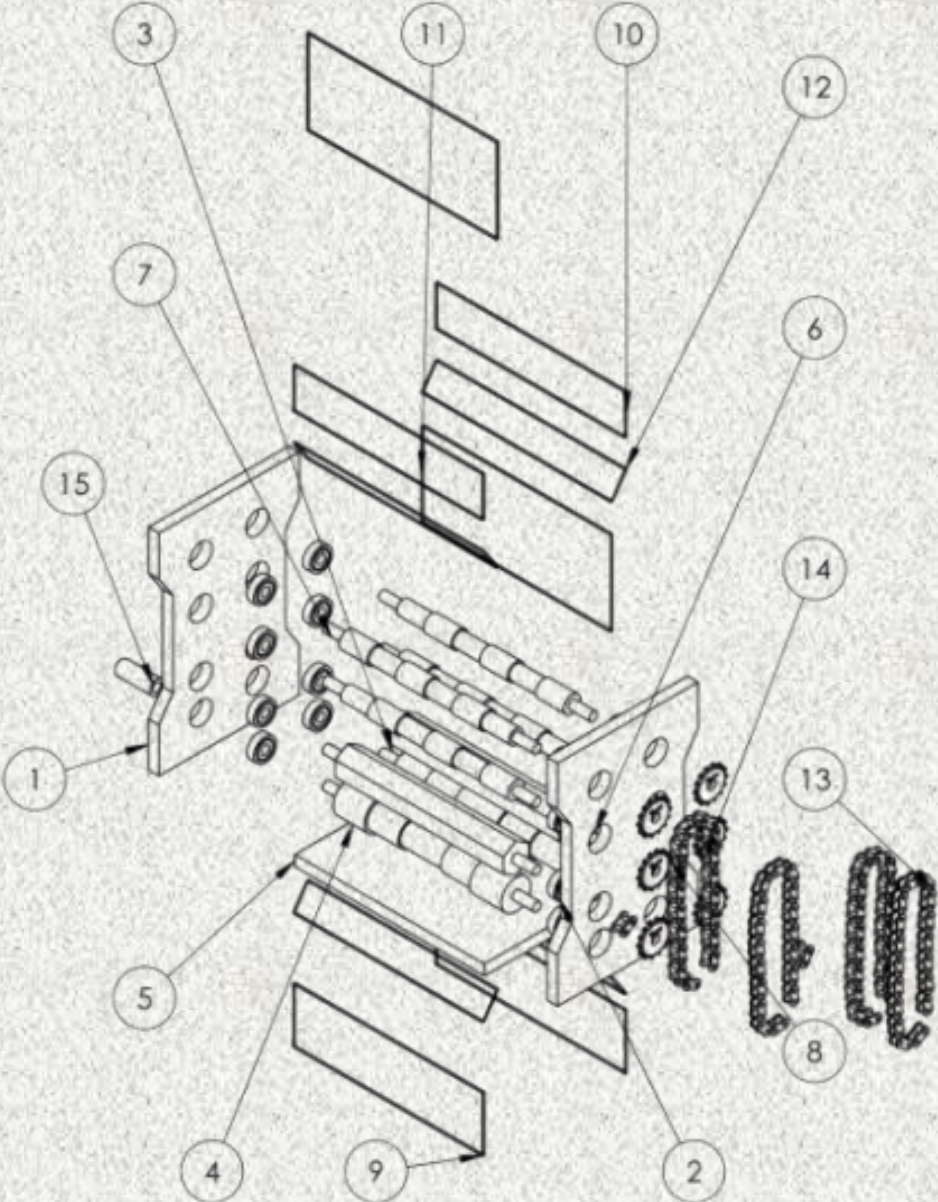
SERIES 4



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 28

Design the Concept of Semi-Automatic Screen-printing Machines

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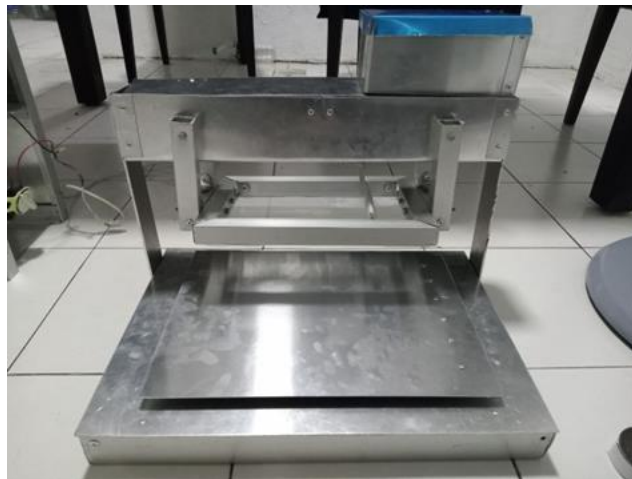
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PROJECT DESCRIPTION

Printing is rather a text and image reproduction process. Usually, this process is carried out through print machines. This is a machine that exerts ink on other objects. With regrets, many people out there do not take a story of the importance of printer machines. Most of the printer machines out there are large sizes. This makes the printer machine hard to carry. Probably the printing section is far away from where the document needs to be used. But in general, most of the printing machines are big in size. The objective of this project is to design and develop our mission for a user-friendly, easy-to-carry printing machine. We also aspire to support new entrants in the printing sector to limit the investment cost they would wish to bear. The characteristic of this machine would be that it needs no connection with a plug and hence reduces energy extractions.

Keywords: *Print, Design, Semi-automatic*

PROTOTYPE



DESIGN PARAMETER

NAME : MUHAMMAD ZAKWAN AFIF BIN NAZMI
 STUDENT ID : 2022661484
 GROUP : J4CEEM1105C
 DRAWING TITLE : ASSEMBLY PART
 SCALE: 1:6 SHEET 1 OF 1

ITEM NO.	PART NUMBER	QTY.
1	rangka table 1	2
2	shaft.coupling new	1
3	stepper motor	1
4	bearing	2
5	LeadScrew (Nut)	1
6	lead screw	1
7	squeegee new	1
8	cover box	1
9	rangka ink frame 1	2
10	rangka support arm 2	4
11	silk screen	1
12	rangka support arm 1 new	2
13	rangka table 2 new	1
14	rangka table 3 new	1
15	supporting arm new 1	2
16	cover mini box	1
17	U-bracket	4
18	L-bracket	12
19	real hinge	2
20	Ink frame 2	2
21	motor holder	1
22	table	1
23	table frame new	1

NAME : MUHAMMAD ZAKWAN AFIF BIN NAZMI
 STUDENT ID : 2022661484
 GROUP : J4CEEM1105C
 DRAWING TITLE : EXPLODED VIEW
 SCALE: 1:20 SHEET 1 OF 1