

UNIVERSITI TEKNOLOGI MARA

**DESIGN, ANALYSIS AND
FABRICATION OF SEED MACHINE**

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ABSTRACT

This project is to design, analysis and fabricates the seed machine. The seed machine is a machine that help people to reduce back pain when planting seeds. This machine also helps the gardeners to make sowing process become shorter time. Next, the machine will make the gardeners easy to manage and maintaining the machine. The seed machine apply mechanical concept to operate. In order to realize and fabricate this project, there are several specific procedure or techniques to be used such as welding, milling and etc. Next, Solidworks 2017 is used for designing the model and to perform simulation analysis. This machine will help in solving problems to gardeners.

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CHAPTER ONE

INTRODUCTION

1.1 Background of Study

Agriculture or plantations is the most important sector in daily life [2]. This is because food and water will produce in this sector. Also, this sector give a good economy and benefits to our country. Hence, it also help cost-economizing effect of family farms has a price in the form of their limited ability [1] . Besides, in the farming process, often used conventional seeding operation takes more time and more labors [7]. From this sector can be develop appropriate [4]. The problems that founded in this sector is gardeners will feel back pain when planting seed. It is because gardeners need to crouched or seated when do plant seeds process. Next, sowing process take a lot of time. In addition, existing machines are quite large and difficult to operate [3]. There are numerous applications used as an analyzing tool [5]. Due to this problems, this device is being develop. The aims of this device to help gardeners reduce back pain when to planting seeds process and to make sure sowing process did not take a lot of time. This product will used steel, chain, tyre and etc. The fabrication process will involve welding, milling and grinding process. With the development of this device, it if believed it will reduce back pain when planting seeds and can reduce a time when do a sowing process.

1.2 Problem Statement

In agriculture or plantations sector there are the problem that founded [4]. First, gardeners will feel back pain when do sowing seeds process because there will crouched or seat when planting the seeds. Next, the problem is sowing process requires more time to be done. And the way to solve it, need the machine that just only to push then seed will comes out and digging automatically. Lastly, existing seed machine are quite large and difficult to operate. This will make gardeners feel difficult to manage the machine.