

**UNIVERSITI TEKNOLOGI MARA**

**DEVELOPMENT  
OF A PORTABLE  
DRINK DISPENSER**

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## **ABSTRACT**

This project is about a portable drink dispenser which is commonly used in many aspects. Usually, drink dispensers cannot dispense any kind of beverages because of the materials that they use, and they are not portable. Besides, there are no portable drink dispensers that can help to maintain low temperature of cool beverages. However, by doing this project, this product can be created to make sure that the drink dispenser can be carried anywhere without being a burden to the users. It also allows the user to maintain the low temperature of their beverages, but it will take a long time. This assignment requires students to do research about the drink dispenser and develop a better one with new aspects using Solidworks 2021. In the making of the portable drink dispenser, there are several processes had been done such as measuring, cutting and drilling. The portable drink dispenser was created.

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# CHAPTER ONE

## INTRODUCTION

### 1.1 Background of Study

A portable drink dispenser is a device designed to dispense drink in a convenient way. It typically consists of a container for holding the beverage, a tap for dispensing the drink and a base for stability. The main function of a portable drink dispenser is to conveniently dispense beverages in a hygienic and efficiency manner. First, the primary function of a portable drink dispenser is to dispense beverages such as water or juice. Portable drink dispenser comes in various sizes, from small ones that can hold a few litres of liquid to large ones. This capacity allows for a continuous supply of drinks to be available without the need for constant refilling. Portable drink dispenser allows for easy and convenient access to drinks for everyone. For example, if we are in a hurry, we could just simply put our bottle or glass on the drink dispenser and let it fill by itself. In portability aspect, this drink dispenser is designed to be moved from one location to another easily.

The issues that are related to portable drink dispenser is that some of the products do not have a good design. As we all know, drink dispenser contains high volume of water. It shows that the product must consist of good quality of material. The reason is to ensure that the dispenser could avoid from led to water leakage or spills. Furthermore, sustain material could also help to avoid the dispenser from being fragile product which can be break easily if mishandled. The target market for portable drinks is broad and can include a wide range of situations and demographics. As for my product, the target market is for those who wanted to use drink dispenser when they have family gathering, going for a camping, or doing barbeque activities. It is because the portable drink dispenser is easy for them to use, which could help the user by putting any beverage inside and then it can dispense it for anyone. As an example, 9-year-old children want to have fresh orange, but he doesn't have the strength to pour the water from jug. So, this will be helpful for the kid to dispense it from the drink dispenser easily.