


# Adjustable Toilet Bowl

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**Abstract:** *In our daily lives, we need something that is convenient especially toilet regardless either when we were in our house or when we were outside such as when we are in shopping mall, petrol station and so on. The emergence of the idea for the product that we innovated was due to the inconvenience when using public toilets. This is because each of us has our own comfort either to use squat toilet or the bowl toilet. So, by having this adjustable toilet, it will make our life simplifies and helps to save our time because there is no need to queue up for the toilet that we want. The ideas to innovate the toilet bowl is also due to the problem of each individual height. This product has been injected with fresh ideas where, in each toilet we are in, it can be adjusted according to the comfort of each individual, from children to the adults. Not only the seat can be adjusted, but also the flushing position of the toilet can be adjusted according to the height of the toilet. The proposed material of this toilet bowl will be polypropylene which can withstand weight up to 300 kg. To use and adjust the toilet, by pressing downwards, the height of the toilet bowl will changed. The main target market for this product are toilet manufacturing companies. That is because usually these companies will normally be the supplier to business such as shopping mall, petrol station, housing developer and so on. Not only that, households are also parts of our target market. By approaching our target market, its is not possible that the adjustable toilet bowl can be offered nationwide and receive positive responses from the users.*

*Keywords:* adjustable toilet bowl; convenient; simplifies.

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## 1. INTRODUCTION

Toilet must be the place that we use in clean, neat and comfortable condition. People will feel satisfy using toilet. No complain no bad issues. Our group decided to innovate an adjustable toilet. Our innovation is really easy to use, comfortable, not a big and heavy product. In short, we create this product with a simple design. The product design with a – colorant look simple. With a simple colour, the product will not easy to be dirty. Next, we want to plan our adjustable toilet with a nice and good material. Easy to use, our toilet can be folded in the bottom of the toilet. So, people can use it and adjust height of the toilet. People can use the product with different height as they want to use. With a simple material which is polypropylene with strong material which can be withstand weight up to 300 kg. So, we can benefit this material to produce our product.



**Figure 1.** Toilet innovation.

## **2. PROBLEM STATEMENT**

In our daily lives, we need something that is convenient especially toilet regardless either when we were in our house or when we were outside such as when we going to shopping mall, gas station and so on. Therefore, the emergence of the idea for the product that we innovated was due to the inconvenience when using the public toilets. This is because each of us has our own comfort either squat toilet or the bowl toilet. So, by having this adjustable toilet that we innovate will make our life simplifies and it's also will save our time because we no need queuing up to wait for the toilet that we want. It is because each toilet we can adjust according to the comfort of each individual. Not only that, we also got the ideas to innovate the toilet due to the problem of each individual height. That is because when a tall person wants to use the toilet but the toilet is too low for them and it's really made them uncomfortable. Plus, the short people also will feel the same when the height of the toilet is not suitable for them. So, by our innovation product, they can adjust the height of the toilet according to their comfortable height. Lastly, we also come out with this innovating is because children are not suitable to use the regular toilet. That is because the toilet is too high for them and their leg cannot reach the floor when they use the normal toilet and it's very dangerous for children that have not enough height. So, when they using this adjustable toilet, the parents can adjust the toilet to the lowest so that their child can use it easily and save. Plus, by having this adjustable toilet the parents can teach their children to independent when their go to the toilet.

## **3. PRODUCT/ SERVICE'S NOVELTY**

This product is an adjustable toilet bowl designed to make human life easier. This product is distinct from those currently on the market. Our product can help to solve challenges in today's society. The adjustable toilet bowl can be adjusted to your preference. In addition, this product is unique comparison to others in the market. Firstly, this product can be adjusted to the height at the bottom of the toilet based on the user's height and comfort. The adjustable toilet bowl is perfect for both children and the elderly. Usually, toilets on the market have no height classification. The most of toilets in the market are foldable type and not directly connect to the toilets. This product is excellent for them. It can make it much easier for them to use the toilet. Then not only the seat can be adjusted, but also the flushing position of the toilet can be adjusted according to the height of the toilet. If you look at the toilets sold in the market, they have a flush in one place, unlike our product. Therefore, children or the elderly can flush by themselves after finish. The product is designed to simplify the user's work and bring more convenience to the user.

#### 4. PRODUCT/SERVICE'S FUNCTIONALITY

The adjustable toilet bowl is very easy and comfortable to be used. Like a small ordinary toilet; our toilet can be folded in the bottom to adjust the height of the toilet. The product innovates with small size, people can use it easily even children and adults. To use it and adjust the toilet, by pressing downwards, the toilet will be changing the shape. Then, use it as usual with comfortable feeling. This toilet bowl is easy to clean after using it even the flush pump prepared with the toilet.

There are some features in this product such as:

- 1) easy and comfortable to use
- 2) retain users' posture and position on the toilet
- 3) can control the height of the toilet
- 4) high cleanliness level
- 5) suitable for children and adults
- 6) durable material

#### 5. PRODUCT/ SERVICE'S COMMERCIALIZATION

For the product that we innovate which is adjustable toilet has target market, and the target market for this product is toilet manufacturing company. That is because usually this big company will be the target to any business company such as shopping mall, petrol station and so on to be the company that supply toilet for them. Not only that, a family also the target market for this product and they need this adjustable toilet not only for the parent but it's also for their children. Plus, we also target the people who have a small house for this product because the toilet not only very comfortable but it also suitable for any size of bathroom. Next, the price for this innovation toilet is affordable and it suitable for any layers of society. After that, even though our product is affordable but the material that we using to build the adjustable toilet have quality. And the main material that we use which is polypropylene is cheaper than the normal toilet material which is special clay called vitreous China. So, the selling price for our product is RM250. With this range of price, the consumers not only afford to purchase the adjustable toilet but they also will have a good and quality toilet. Lastly, for the marketing strategy to attract the consumer to buy this product is by advertising. That because from advertising, people will know that this type of toilet is form and they can know the function of this product from the advertizing. And with many advertising either advertises in media social or television, this will reach our target market to buy this product.

#### 6. CONCLUSION

Adjustable toilet designed by us to make human life easier. Our product used safe materials that can withstand a weight of 300kg. Besides, it also facilitates users of different heights. The most important part of our product is the extent to which these innovations help society. First and foremost, when toddlers reach the age of two, their parents undoubtedly want them to learn to use the bathroom. As a result, parents must give a toilet that is appropriate for the child's and with our heights, so that they are comfortable while using the toilet. As a result, this adjustable toilet bowl can assist them in resolving their issues. Next, this product may be of great interest to consumers looking for home necessities such as toilets. Product can be sold in the market and will get a lot of response. By selling this product in the market it can create income. To sum it up, it is hard for new products to face obstacles in the beginning, such as a low number of users. However, with good advertising, its user's, adjuster, durability, and deeper research into consumer desires, it could overcome this. We hope that the adjustable toilet bowl can be offered nationwide and receive a positive response from customers.

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