ABSTRACT:

The origin of the novel coronavirus (SARS-CoV-2) and its potential harm to humankind increased the use of face mask, gloves and safety kits thus escalated medical waste in the environment. Consequently in the period of pandemic we as a team came up with an idea of implementing a **Smart Mask vending machine with mask disposable compartment**.

Face masks are now part of the new normal around the world amid the ongoing COVID-19 pandemic. They are the first line of defense and their importance in public places cannot be underestimated till the countries around the world successfully reach their vaccination goals, face masks will prevail.

Vending machine is an automated machine which is used to provide food, beverages, snacks and various other items after inserting coin, debit card or specially designed cards into the machine. In this contemporary technological world Vending Machines have taken a worthy place in the society in order to make an easy and safe purchasing to the consumer and can play a vital role in safety at public places.

At present there are various Simple and even Intelligent vending machines for different purposes. In many technologically advanced nations such as USA, UK, China, Japan and others vending machines are extensively and frequently used. Lately China has successfully launched a Mask Vending Machine however there was the absence of disposing kit in the machine. Thus currently in the market combined system is not available. The implementation of such system will occupy less space and also have lower energy consumption.

The objective of this research work was to design a Shredding Machine to obtain small pieces of the waste masks in such a way that it will be helpful for industry to recycle it directly in an automated process and also to reduce pollution in the environment. The disposing of used mask in apt way will play a vital role in minimizing the spread of viral diseases.

Thus considering the urge of this quick requirement of machine we worked on the manufacturing of our Model.

*Hence even if Vaccination is must, Mask will always remain First.*

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