



FACULTY OF MECHANICAL ENGINEERING
UNIVERSITI TEKNOLOGI MARA CAWANGAN JOHOR PASIR GUDANG (EM110)

MECHANICAL ENGINEERING DESIGN (MEC 332)

PROJECT:

FINAL YEAR PROJECT REPORT ON CRANK WHEEL METAL CRUSHER (CWMK)

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1.1 OVERVIEW OF THE PROJECT

Due to the pandemic that is still happening, most people become more passive because they are not being able to go outside to do any physical activities. According to The Star News [1], it says that many Malaysians have been complaining about their weight gain during the movement control order (MCO) period, which was not a surprise considering that they were homebound and less active physically. This problem will affect someone's lifestyle and cause an increase in rising body weight. There are so many alternatives that can be introduced in order to combat the problem. To prevent this unhealthy lifestyle and boredom from continuing the group has come up with a great idea, which we named it as a "Crank Wheel Metal Crusher" that works by crushing metal elements such as aluminum can. This project is renewed from the existing project by adding some good mechanisms that will lead people to have healthy and joyful lifestyles while keeping the earth healthy by lessening the waste. According to Better Health Channel [2], riding a bicycle is one of the best ways to reduce risk of health problems. Cycling is a healthy low-impact exercise that can be enjoyed by people of all ages. Better Health Channel also says that cycling is good muscle workout, good for stamina and for strength. Because of that, our group decided to combine a cycling mechanism with the metal crusher. This will help people to have a healthy lifestyle without doing outdoors activity due to the movement control order.