

ABSTRACT

Threewheeled Vehicle is kind of vehicle that used rarely today, but threewheeled vehicle has more advantage on its stability. Designing this vehicle used kind component from little vehicle in this case we're using component from Daihatsu Hijet 1000.

Threewheeled vehicle will be designed using reference and then by trial error methods the vehicle made as little as possible but still manage to retain its stability. So the designer could get the right position of the passenger car so the stability of the vehicle can kept.

The moving unit use type of 160 – 200 cc engine. Engine will joined transercase that used as speed reductor and reserve unit. The vehicle speed designed for low speed. It maximum speed is only 60 km/hours.

To analyse the frame on its strength is using computer program SAP 2000 in 3 dimension by using two kind of load, the life shock load that changeable and the death shock load that constant. The load will be joined with safety factor that defined by the load carrying maximum of the vehicle. The load that carrying is load that give big carrying to the load, tyre, steering system, whell load not include

By designing the dimension could define the vehicle capability at the road so the vehicle can be used right to avoid the accident to happen.