

Abstract

The trend of classic motorbikes is now increasingly crowded, especially in Indonesia, even large manufacturers issue motorbikes with classic styles to meet market needs, but from buying new motorbikes with classic concepts, many people buy old motorbikes and customize their own according to the style and concept they want, there are several The problem with custom motorcycle bodies is that the motor body is less rigid and for the maintenance of the electrical parts under the tank and seat the user has to bother dismantling the two parts. The purpose of this design, researchers want to design a motorcycle body with a unibody concept or the whole body is made into a single unit so that later it can be pop-up like a sports car door, the concept of the motor is flat tracker style but using FRP (Fiber Reinforced Polymer) material. to solve the problem of a motor that is less robust (rigid) and reduce the weight of the motor body itself, in addition to making it easier for users to maintain electrical parts. Therefore, researchers want to design a custom motorcycle with a Unibody concept with a pop-up system using Fiber Reinforced Polymer material.

Keywords: classic motorcycle, custom, unibody, pop-up, Fiber Reinforced Polymer