

Design and Fabrication of Electric motorbike

ABSTRACT

The electric motorbike are becoming quite famous and common in the market because of the advantages offered by these vehicles such as zero emission, no fuel requirement, cheaper than gasoline vehicles and do not require high maintenance and produce less noise .Therefore, in this project an electric motorbike was developed with implementing gearbox and clutch systems. The design of various components of electric bike were first created on cad software(CREO PARAMETRIC) and after modeling those parts were fabricated in workshop by selecting suitable material for different components. The bike was designed after studying several parameters which could affect its performance such as motor rpm, diameter of the pulleys, power of motor, efficiencies of motor and battery. After fabrication it was found that the developed electric motorbike was according to the design and achieves the desired performance.

