

ABSTRACT

This product was designed starting from the difficulties of the dirt bike enthusiast community when doing activities on off-road terrain, there are several difficulties experienced by fans, one of which is when riders carry a lot of goods. Because dirt bikes have limited space, riders have difficulty being flexible. then there are several cases that occur in dirt bike enthusiasts that make users experience unwanted things, such as back pain due to the weight of the bag. Since the bag alone is not enough to increase user flexibility, the author must design a bag with additional features that aim to make it easier for users. The author uses the SCAMPER method as a creative technique to generate new ideas or develop innovations of existing products, services or processes. This approach ensures that the product, service or system created is aligned with the needs, preferences and expectations of the user in an effective and intuitive way. A dirt bike backpack has 80-90% importance in supporting riding comfort, safety, and efficiency. Comfort (30%) is supported by good load distribution, while safety (25%) is assured by the chest and waist straps. Material durability (20%) is important for dealing with extreme terrain, while the hydration system (15%) ensures the rider stays hydrated without stopping. Functionality (10%) allows for gear storage without compromising balance. With these factors, a backpack becomes an essential piece of gear for dirt bike riders. A dirt bike backpack should be designed to lighten the user's load with ergonomic and innovative features. Optimal load distribution, lightweight materials, integrated hydration systems and air vents increase comfort and efficiency. Streamlined compartments ensure quick access without interfering with movement. With these features, the bag is not only storage, but also supports the rider's performance on extreme terrain.

Keywords: Bag, OFF-Road, Cross Motorbike