

# Bloodhound Talk

Bloodhound was first started in 2007 with the goal of creating the world's fastest land vehicle. Since the project started in 2007, it has almost gone bankrupt multiple times until it received funding in 2017. Bloodhound currently have the third fastest land vehicle in the world. The fastest vehicle in the world is the Thrust SSC which in 1993 reached 763 mph. To create the Thrust SSC, they created models 1/10th the size of the vehicle so they could improve the thrust to become a faster vehicle. The model managed to go from 0 mph to 800 mph in just 0.8 seconds. Instead of testing using models, today they use CFD to help make sure the vehicle is as aerodynamic as possible. It took Bloodhound 10 years to go from config 0 (original design) to config 12 (final design). When the vehicle first started it had 14 tonnes of lift on a 7 tonne vehicle but by changing the design and using CFD they managed to reduce the lift to 1.3 tonnes.

On the first run they do two tests, first to see if the brakes on the vehicle work and second is to see if they are able to hit full thrust from a standing start. The goal is to go from 0 mph to 212 mph in 12 seconds.

The 3 ways to stop the vehicle is its core aerodynamics of the vehicle, parachutes attached to the vehicle and the vehicles brakes. The vehicle is tested in South Africa in a 12 mile long dried out lake where the locals come to help by hand clearing all the rocks in the ground for the vehicle.

So far, the bloodhound vehicle has managed to reach 628 mph. when trying to go for the record of world's fastest land vehicle there is a huge set of rules they have to follow to validate the record, one of the rules is the vehicle must be controlled by driver and not a computer.