



Moving Ground Wind Tunnel

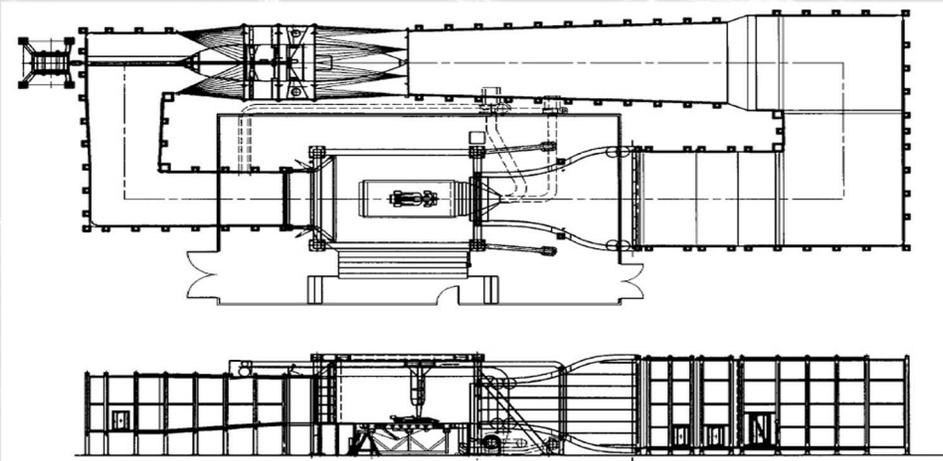
ARC, the Best Kept Secret in Efficiency!

The ARC moving ground wind tunnel is a 50% scale, open jet, rolling road design. All the components, from fan blades to its complex nozzle, have been researched and developed to give the **accurate correlation** between wind tunnel results and on-road/track performance.

In addition to the **technical support** of the finest aerodynamicists, ARC offers a variety of support services: model rental, test program consultation, model setup, and model part construction.

Our "state-of-the-art" **model motion system** allows for testing using up to 14 force components and 5 axis of motion (automated heave, pitch, roll, yaw and steer). Our data collection system and repeatability is second to none.

The ARC Wind Tunnel is **available for rent** on a daily basis, and has become a second home to the design and engineering departments from many automotive and commercial vehicle OEMs.



ARC Wind Tunnel Specifications

Max Wind Speed 50 m/s
 Max Road Speed 50 m/s
 Nozzle Size 2.3 m wide x 2.1 m high
 Contraction Ratio 4.8 : 1.0
 Moving Ground Plane Size 3.4 m x 1.7 m
 Average Air Temperature 74°F +/- 0.5°F
 Road Temperature 74°F +/- 0.5°F
 Cooling Coil 5.25 fins per inch
 Boundary Layer 99% free stream @ 1mm
 Primary BL Motor Power 80 kW
 Secondary BL Motor Power 19 kW
 Belt Suction Motor Power 6 kW
 Rolling Road Motor Power 120 kW
 Main Fan Motor Power 320 kW

