



Wind Tunnel Model Motion

ARC, the Best Kept Secret in Efficiency!

Designed in house by ARC, the model motion system is a state of the art scale model force measurement system. **Accurate & repeatable** aerodynamic numbers are produced by mounting the system inside of the scale model and utilizing an Aerotech 6-axis force measurement balance. The system also features an internal gear system to minimize backlash and provides high level accuracy of model movement.

The Model Motion system **provides a range** of yaw motion of +/- 14°, roll motion of +/- 5°, and pitch motion of +/- 4°. The use of stepper motors driving through a gear reduction system to multiply torque allows the range of motion to be repeated time after time.

For **increased aerodynamic simulation**, the system also provides an air circuit to allow the use of a compressed air feed, routed down the sting, so as to allow the option of blown model exhausts.

