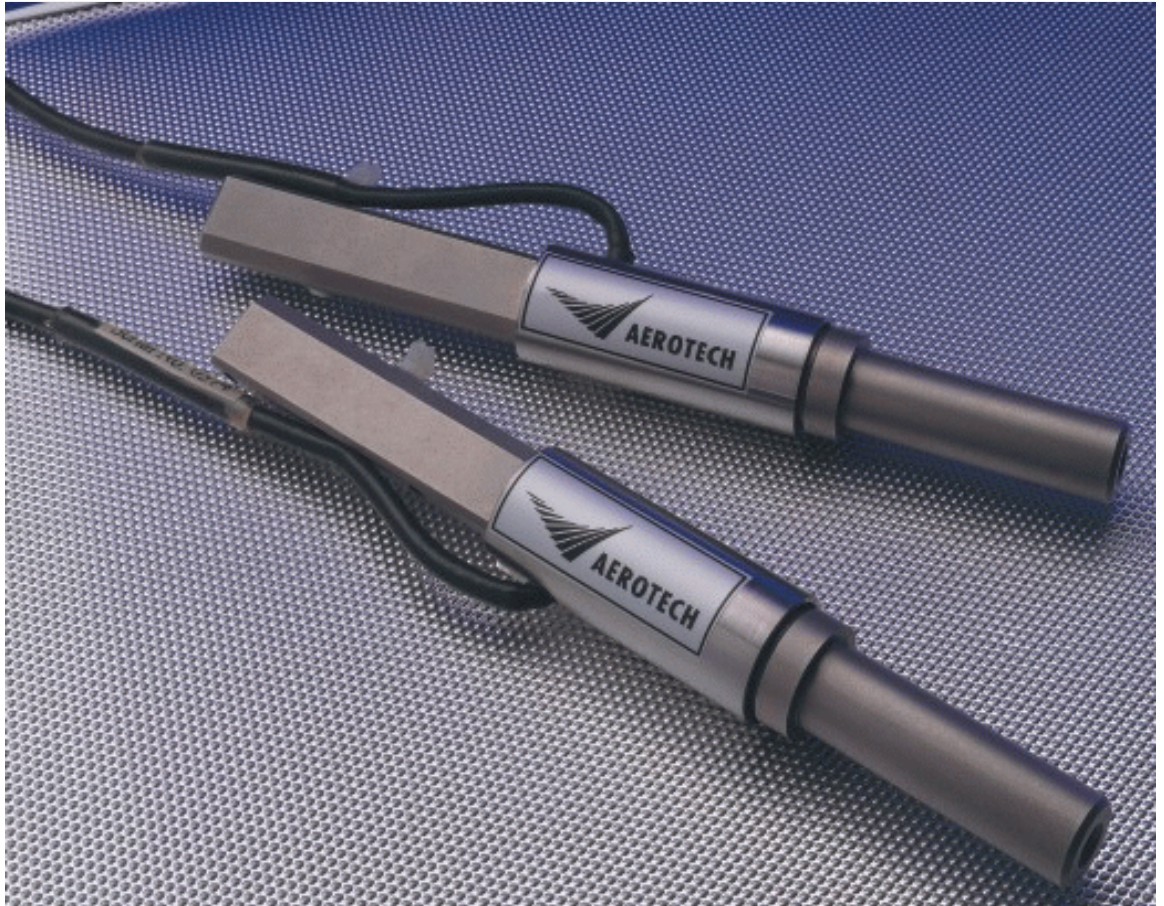


WHEEL DRAG LOADCELLS



FEATURES:

- Measures aerodynamic drag of wheels
- Suitable for front or rear wheel measurements
- One piece design
- High accuracy and repeatability
- Low deflection
- Designed to suit model scale
- Compact device
- Protective cover

AEROTECH Wheel Drag Load Cells are specifically designed to support model race car wheels in order to measure the drag of the wheel itself. They are compact devices which can be mounted to the wheel supports inside a fairing and provide a precision shaft on to which the wheel bearings can be fitted. With the wheel detached from the model but supported by the drag loadcell, the aerodynamic drag of the wheel is measured by the loadcell independently.

The wheel drag loadcells are suitable for either side of the car and can be used for front or rear wheel tests. Signal conditioning for these devices can also be supplied.

Technical Summary:

Typical Load Range:	70 - 100 N
Electrical Outputs:	Unamplified 1.0 mV/V
Excitation Voltage:	10 V Nominal
Overload Capacity:	Up to 100% fsd
Overall Accuracy:	< $\pm 0.05\%$ fsd
Deflection at Maximum Load:	Approximately 0.1 mm
Approximate Space Envelope:	18 mm Diameter x 100 mm long
End Fixings:	To suite user's requirements

AEROTECH specialise in custom designed single or multi axis force measurement devices. We have designed and supplied special load cells for model testing as well as force measurement devices for full scale "on the track" testing. Helmet balances, mirror balances, push rod and suspension load cells, system linkage load cells are just some examples of devices that can be supplied.

Please contact us to discuss your application.



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