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Product Name :
Subsonic Wind Tunnel

Product Code :
LBNY-0005-13700022



Description :

Features:

Compact, open-circuit suction design
Wide variety of experiments in aerodynamics
High levels of safety
Controls and instrumentation conveniently mount on a separate, free standing frame
Saves time and money compared to full-scale wind-tunnels or airborne laboratories
Operates at meaningful Reynolds numbers
Comprehensive selection of optional instrumentation, models and ancillaries.

Technical Specification :

Experiments:

A wide variety of subsonic aerodynamics experiments (some need ancillaries), including:
Flow past bluff and streamlined bodies with pressure and velocity observations in the wake
Pressure distribution around a cylinder under sub and super-critical flow conditions
Study of the pressure distribution around an aerofoil model to derive the lift and comparison with direct measurements of lift.
Study of characteristics of models involving basic measurement of lift and drag forces
Investigations into boundary layer development
Influence of aspect ratio on aerofoil performance
Performance of an aerofoil with flap, influence of flap angle on lift, drag and stall
Study of the characteristics of three-dimensional aero foils involving measurement of lift, drag and pitching moment

Drag force on a bluff body normal to an air flow.



Laboratory Instrument India