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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

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



**Laboratory Instrument India**