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**Product Name :**  
Boundary Layers

**Product Code :**  
LBNY-0005-12500010



#### **Description :**

The plate has two different surfaces so as to study the effect of surface conditions on the boundary layer. Side bodies can be used in the measuring section. The experimental unit used in the aerodynamics trainer allows the boundary layer on a flat plate to be studied. Thus the boundary layer phenomena can experience interference with a degressive or progressive pressure curve and, for example equalise the friction loss of the flow. For this purpose, air flows along the plate, parallel to the surface.

#### **Learning Objectives And Experiments:**

Boundary layer interference with  
Degressive/progressive pressure curve  
Internal friction of gases  
Influence of surface roughness on the formation of a boundary layer  
Investigation of the boundary layer on the flat plate.

#### **Technical Specification :**

Investigation of boundary layers on a flat plate with flow along the plate  
Adjustment of the Pitot tube to the plate using micrometer screw  
Pitot tube for measuring the total pressure at the plate  
Removable side bodies for interference of the boundary layer with degressive or progressive pressure profile  
Accessories for the aerodynamics trainer  
Plate with two different rough surfaces  
Moveable plate, along the direction of flow  
16 tube manometers for displaying the dynamic pressures.



**Laboratory Instrument India**