

**Product Name :**  
Hydrodynamic Behavior

**Product Code :**  
ENGLABINGCAG600005



**Description :**

Hydrodynamic Behavior

**Technical Specification :**

"Hydrodynamic lubrication occurs in roller bearings, gear wheels and cam followers, whose contact surfaces are subjected to high loads.

The theory of hydrodynamics takes into consideration the elastic deformation of the bodies in contact with each other and provides a basis for calculating the influence of lubrication on damage to gears and roller bearings. These surfaces are elastically deformed because of high contact pressures.

**Features:**

Investigation of the thickness and shape of the lubricating film

Hydrodynamic behaviour between the sphere and rotating-glass-plate friction pair.

**Learning Objectives And Experiments:**

Study the effect of load and speed on the thickness of the lubricating film

Together with the drive unit

Determine the thickness of the lubricating film at the contact point of a sphere with a plane surface compare with theoretical value."

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# Engineering Lab Equipment India

