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**Product Name :**  
Journal Bearing With Hydrodynamic Lubrication

**Product Code :**  
LBNY-0005-1010005



**Description :**

In hydrodynamic bearings, the shaft and the bearing shell are separated from each other during operation by a supporting lubricating film. The position of the shaft in relation to the speed and the load is important for an analysis of the tribological process in the bearing shell of a journal bearing. The pressure in the lubricating film in hydrodynamic journal bearings is generated by the relative motion between bearing shell and shaft.

**Features:**

Pressure distribution in the journal bearing  
Locus of the shaft under different loads and speeds  
Frictional moment under different bearing clearances and loads.

**Learning Objectives And Experiments:**

Influence of speed, bearing clearance and bearing load on the displacement of the shaft  
Influence of speed, bearing clearance, bearing load and lubricant on the frictional moment  
Determine the coefficients of friction at various loads and speeds, compare with Stribeck curves  
Locus of the shaft.

**Technical Specification :**

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# Laboratory Instrument India

