

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

**Product Code :**  
ENGLABINGCAG600003



**Description :**

Journal Bearing With Hydrodynamic Lubrication

**Technical Specification :**

"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."

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# Engineering Lab Equipment India

