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A journal bearing consists of an  
approximately cylindrical body  
around a rotating shaft, used  
either to support a radial load or

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Applications of tribological technology in bearings are wide and varied in industries ranging from aerospace, marine and automotive to power, process, petrochemical and construction.

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## PRINCIPLES AND APPLICATIONS OF TRIBOLOGY

Tribology is applied to the emerging science of friction, wear, and lubrication involved at moving contacts. Several distinct regimes are commonly employed to describe the fundamental

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principles of tribology. These range from dry sliding to complete separation of two moving surfaces by fluid-film lubrication, with an intermediate range involving partial separation in boundary or mixed lubrication.

Tribology - Friction, Wear, and  
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Self-acting bearings are a class of bearings where rotation of the journal sitting in an eccentric position with respect to the stationary boundary (cylindrical bushing or flat member) generates a pressure field in the thin fluid-film layer lying therein and thus creates a load-supporting mechanism.

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