



5. Land

**1. Straight-Thru Labyrinth:** A type of labyrinth seal incorporating a constant clearance between knife-edges and a cylindrical sleeve of constant diameter.

**2. Knife-Edge Diameter:** The diameter which corresponds to the farthest outward protrusion, or to the farthest inward protrusion, of the knife-edge of a labyrinth seal.



**3. Knife-Edge Ring:** A ring shaped member in a labyrinth seal, in which the knife edges are machined or on which the knife-edges are mounted.

**4. Knife-Edges:** The narrow, circumferential knife-like edge or lip on a labyrinth seal which combined in series with other knife-edges, accomplished the throttling which achieves the seal.

**5. Land:** The cylindrical surface of the land ring in a labyrinth seal, which makes the closest approach to the knife-edges.

**6. Land Diameter:** The diameter of the cylindrical surface which is in closest proximity to the knife-edges and which, in combination with the knife-edges, effects the seal.

**7. Land Ring:** A ring shaped member in a labyrinth seal, which is either a straight-walled cylinder or a cylinder with axial steps. The land ring forms a clearance with the knife-edges effecting the seal.

**8. Radial Clearance:** Half of the total difference between the nominal land diameter and the nominal knife-edge diameter.

**9. Shaft: Also Known as Bore Seal:** A device the outside-diameter surface of which mates with a bore surface. It provides sealing between these two surfaces.