

97000U2 (and 9000U) series 29° angular contact split inner ring ball bearing sets

97000UP2 (and 9000UP) series 40° angular contact split inner ring ball bearing sets

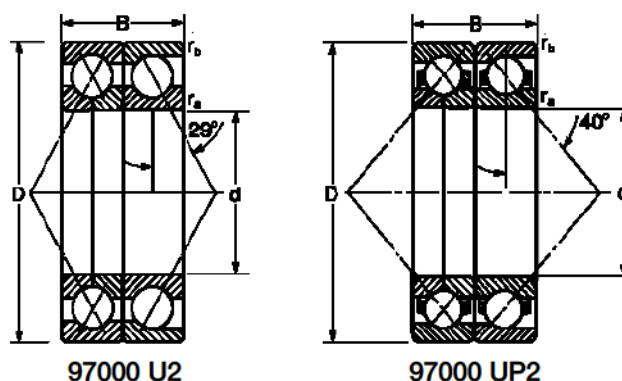
The extraordinary feature of the MRC 9000U and 9000UP series angular contact ball bearings is the split inner ring that allows the assembly of an optimum ball complement while accommodating thrust in either direction. The thrust capacity in either direction is equal to the equivalent size 7000DU or 7000PDU bearing.

- ABEC-1 tolerances
- Split inner rings
- 9000U: 29° contact angle
- 9000UP: 40° contact angle
- Land-guided machined bronze cage

The split inner ring bearing can be matched in tandem with a single 7000 or 7000P series type bearing with the same contact angle. This configuration yields two bearing shared thrust capacity in one direction and one bearing thrust capacity in the opposite direction.

The split inner ring bearing is usually paired with a 7000 or 7000P series bearing for use in pumps or motors, as a 97000U2 or 97000UP2 set. The letter "P" identifies the bearing or set as having a 40° contact angle.

- 97000U2: 29° set consisting of one 9000UDT and one 7000DT
- 97000UP2: 40° set consisting of one 9000UPDT and one 7000PDT



This bearing set is commonly used in vertical motors or pumps to handle the primary thrust load. Because two bearings acting in tandem share the thrust load, this solution offers an extremely high thrust carrying capacity. Reversing thrust load can be accommodated on the back side of the split inner ring bearing.

Another common application of this bearing system is stirrer motors for ethylene reactors. In this application, the bearing depends upon the reactor's plasma for lubrication. MRC offers a variety of materials and cage designs to provide optimum service life with marginal lubrication.

For proper mounting orientation, please refer to the stuffer provided in the bearing box.