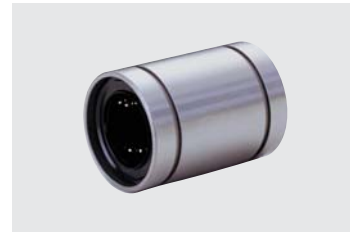


1. Linear Ball Bearing precision series type KB - SW..G

SLB Linear Bearing type KB and SW..G are composed by a cylindrical outer ring, by a cage that retains the balls, by two end rings to retain the cage and/or, when required, contact seals. All of the components are designed and assembled to optimize the unit performance. The outer ring is suitably hardened to provide the longest possible life expectancy. The cage made of steel or engineered resin, depending upon the type of bearing selected, provides the retention and allows the proper recirculation of the balls.



1.1 Characteristics of linear bearings type KB

1.1.1 High rigidity

Linear bearings with steel outer ring offer high rigidity due to the large number of balls in contact. The units can be supplied with a steel cage and, when low weight is required, with resin cage.

1.1.2 Ease of assembly

The standard units can carry load in every direction. The large variety of housing units and shaft supports allow simple and easy mounting.

1.1.3 Ease of replacement

These units follow internationally recognized boundary and are therefore dimensionally interchangeable with competitive units. Replacement due to wear or damage is quick and simple.

1.1.4 Complete range

The **SLB** range of products is quite broad. The characteristics can be summarized as follows:

- A) Closed type - standard version
- B) Adjustable type - These units have a longitudinal slot that allows the reduction of the operating clearance and the optimization of the unit rigidity.
- C) Open type - These units have an opening that corresponds to a single recirculating channel (50 to 100 deg). These units are used in conjunction with long shafts that are typically supported along the entire length to reduce the elastic deflection. When mounted in a suitable housing, the units allow the adjustment of the operating clearance.
- D) Flanged type - These units have a flange on the outer ring to allow the mounting without conventional housings.

1.2 Seals

Linear bearings KB and KB can be supplied in the following versions:

- Without seals - KB / SW..G
- With contact seals - KB..PP / SW..GUU

The seals have the following functions:

- Prevent the ingress of contaminants
- Retain the lubricant in the bearing

In some applications, it may be necessary to use additional seals to prevent grease migration and thus prolong the maintenance interval.