

Technical information on the SKF axial sealing



To provide increased sealing performance and longtime durability of the bottom bracket unit, SKF has developed a special axial seal - a patented design derived from the hub units in automotive applications.



The seal consists of two lips: the axial sealing lip and the grease retaining lip. The internal grease retaining lip is placed directly to the roller and ball set and keeps the grease inside the bearing. The axial sealing lip is placed outwards to the stopring and protects the bearing against water, dirt and dust from outside. This allows the bottom bracket unit to operate smooth and low-frictional

The axial sealing is designed for self-cleaning, though moisture is not kept in but can flow out immediately. Furthermore, if water enters during the cleaning through the stopring towards the sealing, the sealing lip is pressed under pressure to the tread on the stopring and the seal effect will even get intensified. Even if the spindle is temporarily deflected under high loads, the sealing lip can slide along the tread without lifting off and reducing the seal effect.

In addition, a one-piece shell and the stoprings prevent the sealing against coarse dirt particles.

In combination with a long life lubricant, all these functions enable the bottom bracket units to work perfectly for a minimum of 10 years under normal conditions.

