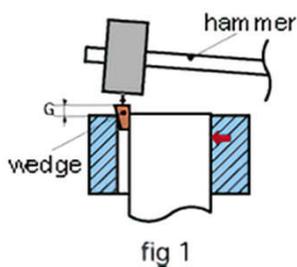


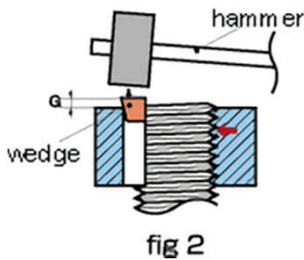


Features of the Hardlock Bearing

A Bearing-use Self-Locking Nut Applying the Wedge Principle



Tighten the lower nut 1 and tighten the upper nut 2 by hand. At this time, a gap G is created. This is a tightening margin used to provide the self-locking effect.



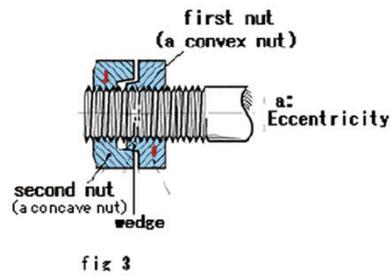
Gripping and tightening the upper nut 2 with a wrench generates torque, which allows the self-locking effect to be felt by hand. Make use of this feedback to set the torque value as required. At this time, the powerful self-locking effect is intrinsic, regardless of whether or not there are any gaps between the upper and lower nuts, so you can rest assured that the nut is securely tightened.

Pay Attention to Effect of Applying the HLB

The HLB is a set comprising a lower (convex) nut and an upper (concave) nut. The lower (convex) nut's sliding surface is eccentrically formed, while that of the upper (concave) nut is perfectly circular, causing an eccentricity between the center lines of the two nuts. As the upper nut is tightened onto the lower nut, the sliding surfaces are forced together by the screw thread, wedging the two together and producing an excellent self-locking effect. This effect prevents the HLB from working loose, even when exposed to extremely severe vibration and impact forces.

The wedge action can, however, be released simply by removing the upper (concave) nut. Moreover, since the HLB is made of metal, its properties are not altered by reuse, which means that a stable self-locking effect can be maintained even if the nut is repeatedly loosened and tightened dozens of times.

The Powerful Self-Locking Effect Results in Substantial Cost Savings



When considering the cost of self-locking nuts, it is meaningless to make comparisons based on the cost price alone. Unlike conventional nuts, HARDLOCK bearing nuts are maintenance-free, so post-installation maintenance inspection costs and the expense of dealing with complaints are totally eliminated. When these factors are taken into account, the huge advantage of using HLB nuts in terms of overall economy is clear.