

LDK[®] Air Handling Series

The LDK Air Handling Series is designed for a wide variety of highly demanding HVAC and air handling applications.

1) Applications

Exhaust Fans, Heating Fans, Blowers, Heating Equipment, Cooling Towers, Exhaust Ventilators etc.

2) Special features

-100% noise tested to Electric Motor Quality (EMQ) standards.

-100% testing of alignment torque.

Bearings and housings are individually matched to achieve an air handling fit, a unique set of tolerance to ensure easy alignment and prevent bearing pre-load when mounting onto a light weight frames.

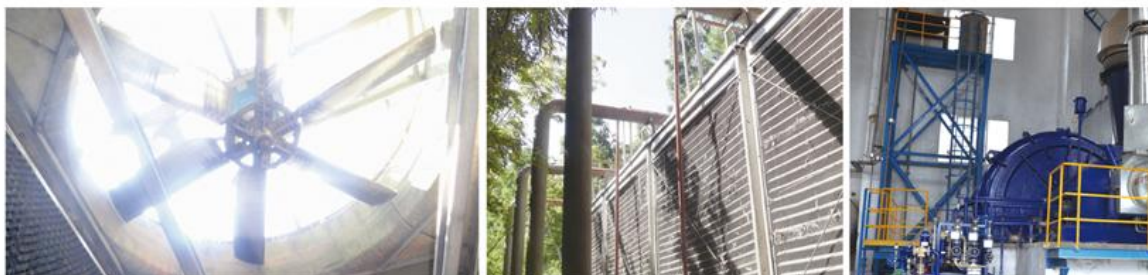
-Each bearing is manufactured with AISI 52100 bearing steel, G10 grade steel ball, low noise retainer and low noise grease.

-Smaller bore tolerance allows for a tighter fit with the shaft. This in turn, reduces vibration and noise and dramatically increases bearing life.

-Internal bearing clearance is defined as the allowable space between the rolling elements and raceways. LDK uses an appropriate clearance which reduces the noise and vibration in high speed applications.

-Non-Contact seal is available for the lighter torque.

-Nylon patched grub screw is proven to provide greater locking power between the bearing and the shaft.



3) Tolerance and Tolerance values of inner rings and Precision Grade (μm)

Nominal bearing bore dia d (mm)		Variation of tolerance of average bore dia. In plane Δdmp		Unequal bore dia. In plane Vdp	Radial runout of inner ring Kia
OVER	INC	UPPER	LOWER	MAX	MAX
10	18	13	0	6	8
18	30	13	0	6	10
30	50	13	0	8	10
50	80	15	0	10	13

4) Advantages and benefits

LDK Accu-Grip[®] bearing units are designed to produce 360 degrees of equalized locking contact. The shaft is centered concentrically in the bore of the bearing and always runs true. Shaft offset is eliminated and premature locking failure is minimized. Since locking design is a major factor in mounted bearing performance, Accu-Grip[®] stands out as a major advantage.

★ Quick assembly with minimum effort. Only one cap screw to tighten down, in one position!

★ Simplify equipment maintenance and lower replacement/maintenance time and cost.

★ Quiet running. Vibration and noise significantly reduced.

★ Increase manufacturing productivity. Reduce inventory and ordering complexity.

5) Available in any housing and 4 major locking style combination

※ Concentric collar locking UE200 AH, UER200 AH

※ Setscrew locking UC200 AH, SB200 AH

※ Eccentric collar locking NA200 AH, SA200 AH

※ Adapter sleeve locking UK200 AH



Designated with a suffix of "AH" on part numbers. For example, UEPE205-16 AH.