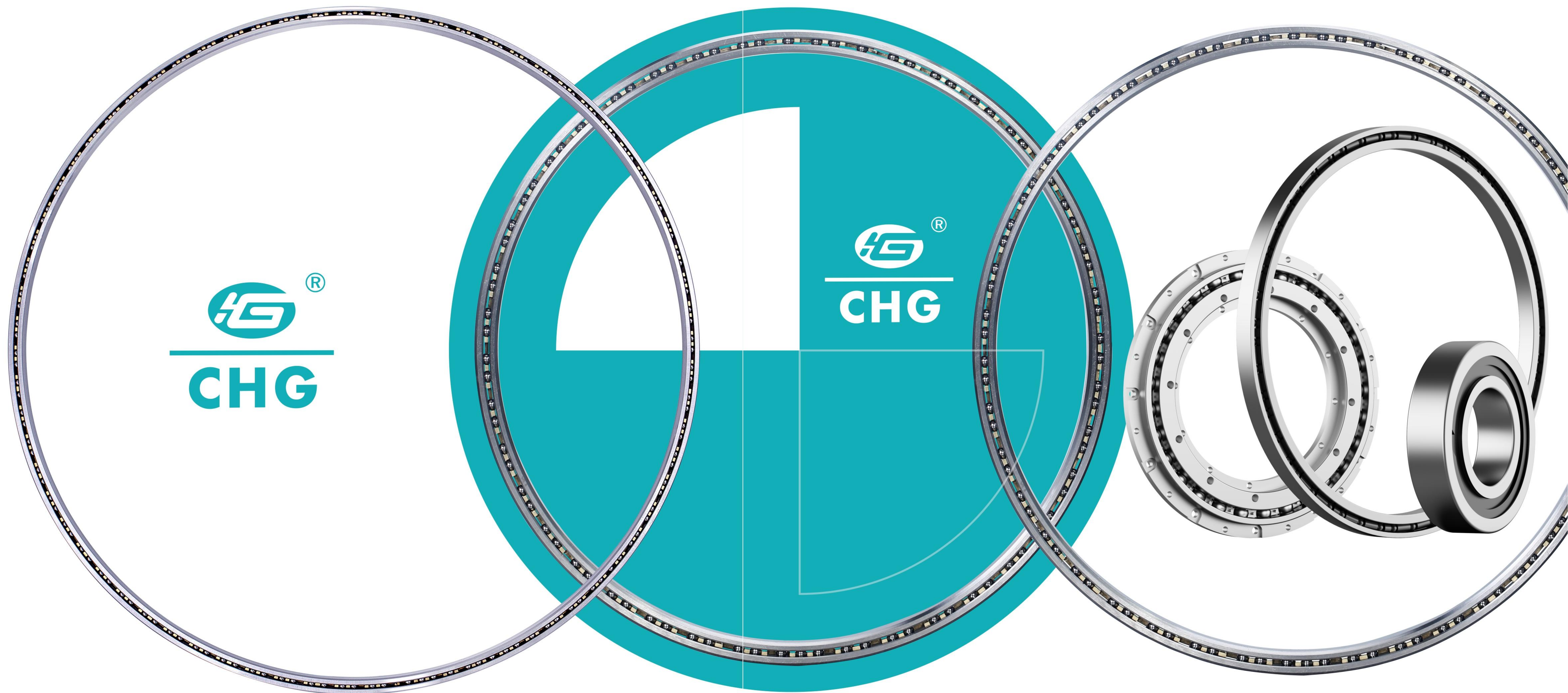




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LUOYANG HUIGONG BEARING
TECHNOLOGY CO., LTD

**THIN SECTION
BEARINGS**

www.chg-bearing.com
www.chg-lybearing.cn



ABOUT US

Founded in 1998, Luoyang CHG Bearing Technology Co., Ltd. is a high-tech enterprise specializing in the design, R&D, manufacturing, and sales of heavy-duty bearings and high-precision thin-section bearings. Located in the Luolong Science and Technology Industrial Park in Luoyang, the company covers an area of 39,330 square meters, with a building area of 33,696.92 square meters. It has a registered capital of 30 million RMB and an annual sales revenue of 150 million RMB. Since its establishment, the company's products have been widely used in metallurgy, military, medical, precision machinery, and other fields, and are exported worldwide.

Our thin-section bearings can be divided into seven open series and five sealed series, with bore sizes ranging from 1 inch to 40 inches and cross-sectional dimensions from 0.1875"×0.1875" to 1.000"×1.000".

The open series include three types: radial contact (Type C), angular contact (Type A), and four-point contact (Type X). The sealed bearings come in two types: radial contact (Type C) and four-point contact (Type X).

Unlike standard bearings, thin-section bearings in the same series have a fixed cross-sectional area, which does not change with increases in bore or outside diameter. Therefore, this type of bearing is also known as "equal-section thin-section bearings."

By adopting bearings from the same thin-section series, related components can be standardized.

Advantages of Thin-Section Bearings:

Space-saving & lightweight

Significantly reduced friction

Excellent rotational accuracy

Without compromising bearing performance or service life, the use of thin-section bearings can effectively reduce equipment size and lower production costs.



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Structure Types and Features of Thin-Section Bearings

Product Overview:

The product line includes seven open series (Figure 1-1) and five sealed series (Figure 1-2) of thin-section bearings, with bore sizes ranging from 1.000 inches to 40.000 inches. Cross-section dimensions span from 0.187 × 0.187 inches to 1.000 × 1.000 inches.

We offer products with various internal clearances, lubrication options, cage designs, and other characteristics to meet the needs of most customers. For corrosion resistance, the 9Cr18 stainless steel series bearings are available, ensuring convenient and fast supply.

Open bearings are suitable when they are not exposed to destructive contaminants, while sealed bearings are recommended when maintaining cleanliness and proper lubrication is essential.

Multiple cage types are available to evenly space rolling elements and prevent friction between them. Common cage types include: one-piece "snap-in windows," one-piece round windows, annular formed wire, PTFE spacers, and ball separators.

Traceability Control:

In today's world, product traceability is crucial. To meet this requirement, each bearing is serial-numbered and recorded, allowing customers to quickly and easily verify our products at any time.

Open Series Bearing

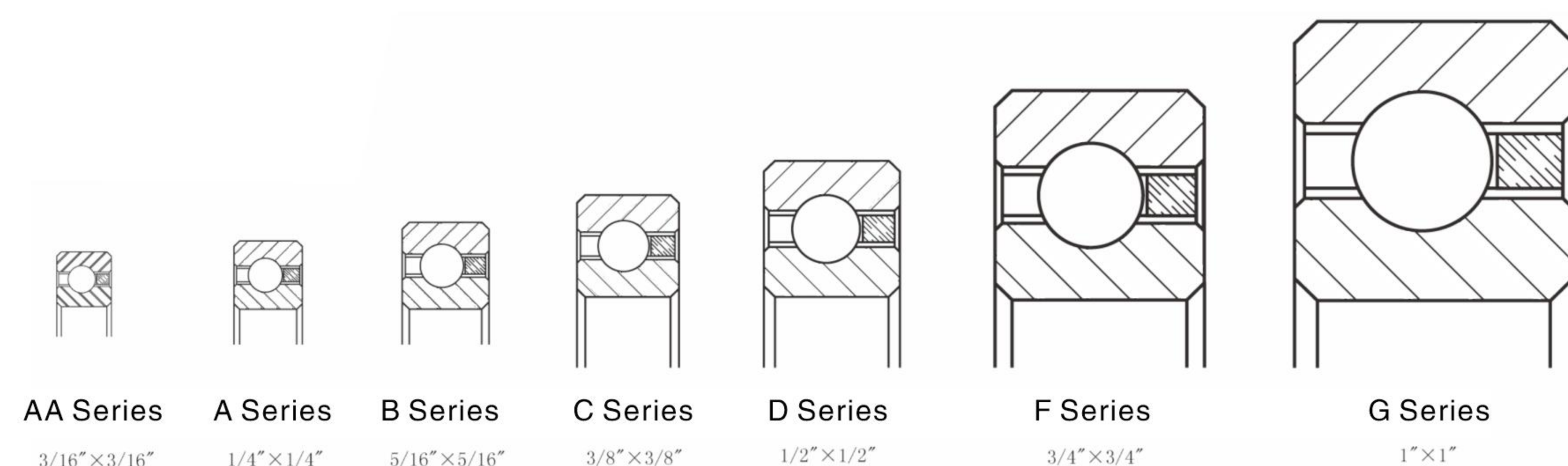


Figure 1-1 open series

Sealed Series Bearing

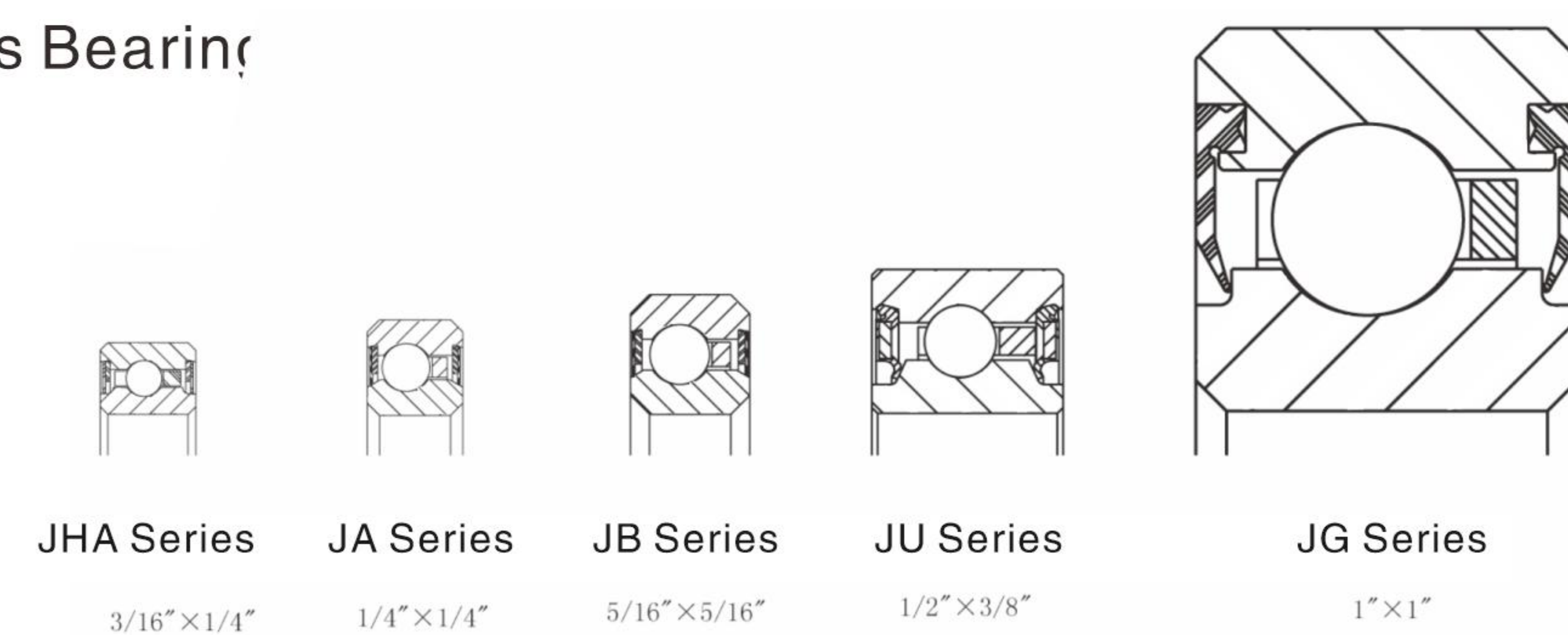
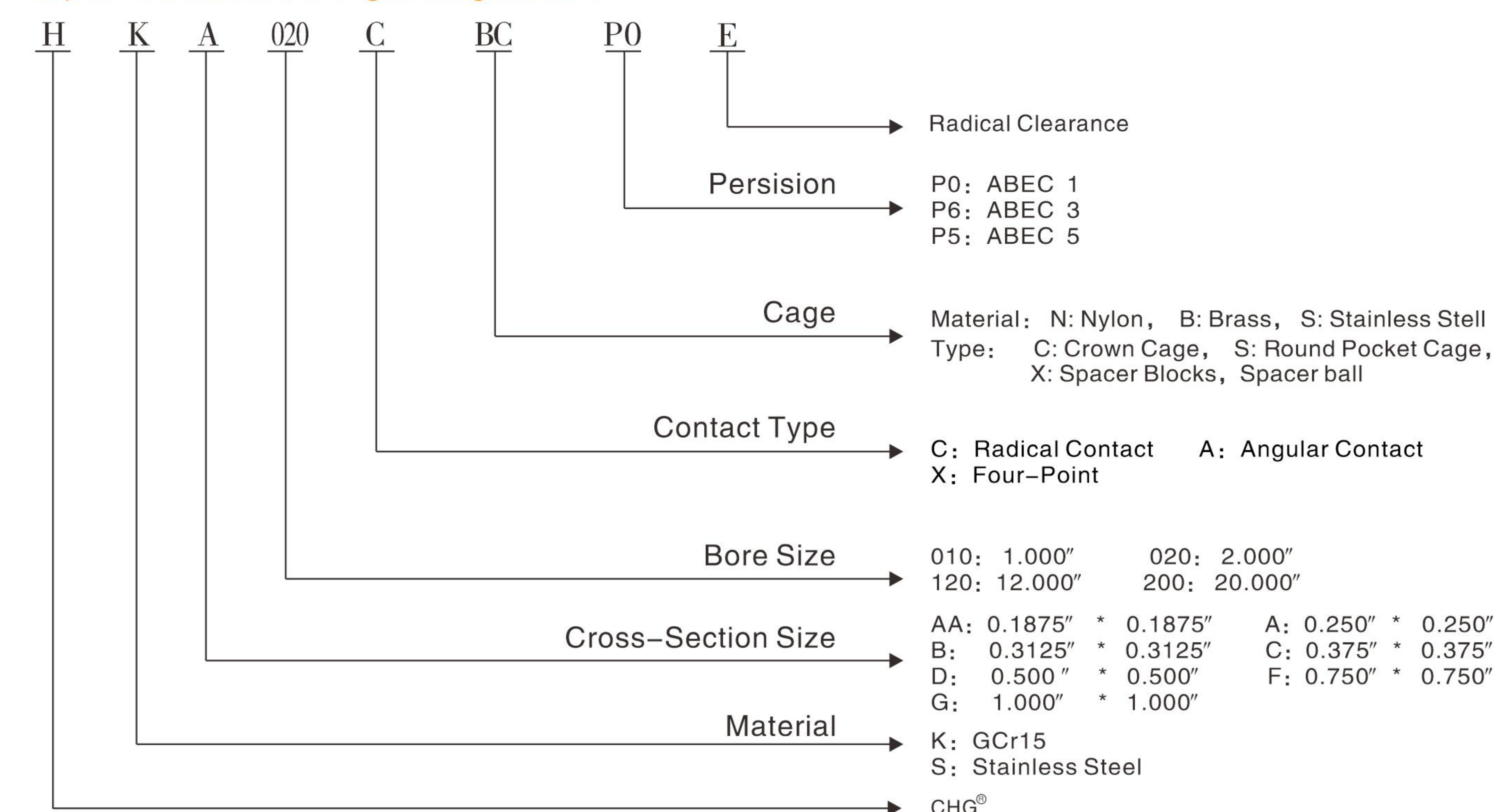


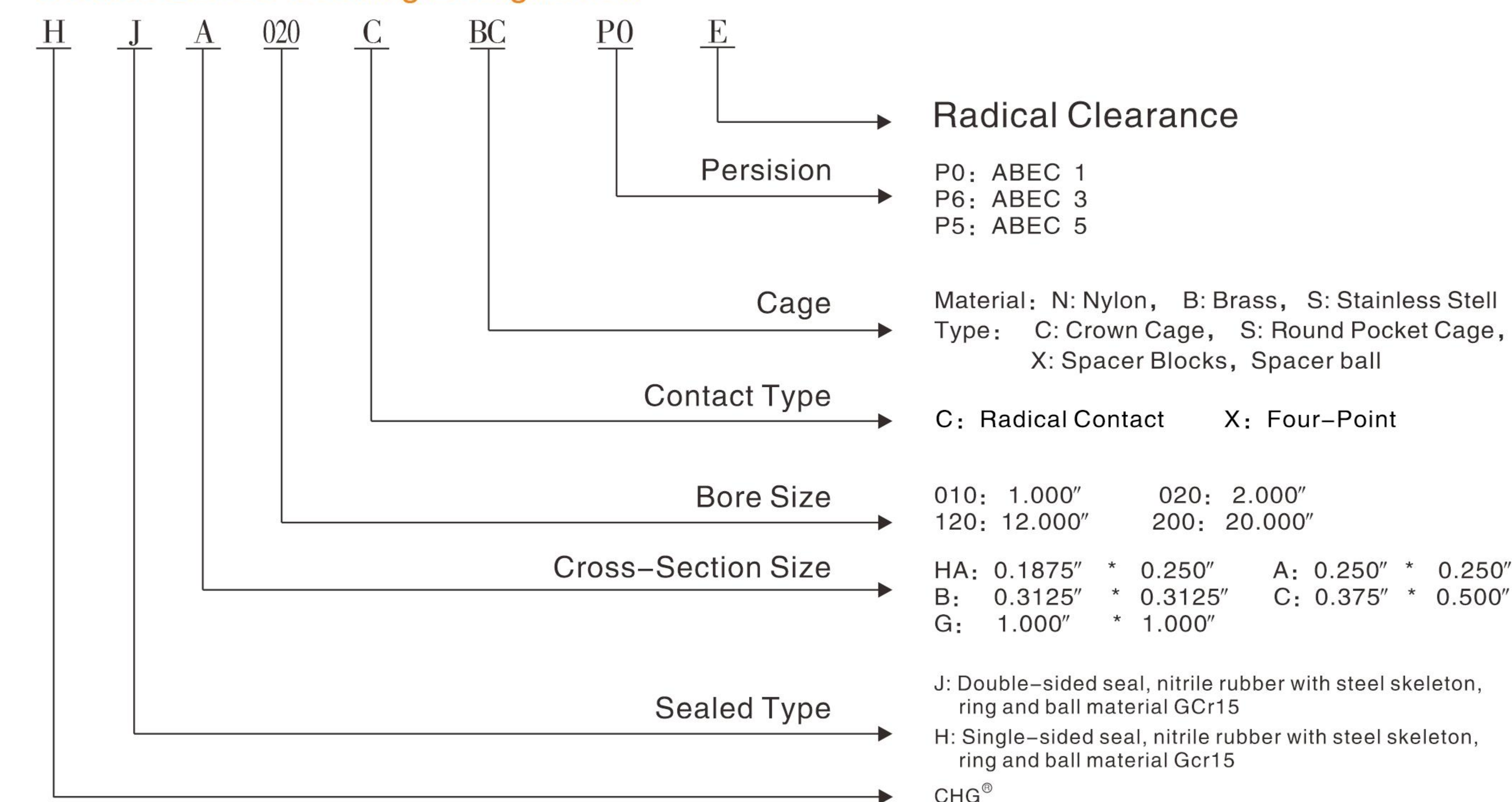
Figure 1-2 sealed series

Model Numbering System for Thin-Section Bearings

Open Series Bearing Designation



Sealed Series Bearing Designation



Bearing Selection Guide

Type C – Deep Groove Ball Bearings (Figure 1.1)

Type C deep groove ball bearings are single-row bearings with extra-deep raceways (groove depth = 25% of the ball diameter). During assembly, the inner ring is typically positioned eccentrically within the outer ring, allowing half the maximum complement of balls to be inserted. After loading the balls, the rings are concentrically aligned, and the balls are evenly distributed before the cage is installed.

An alternative assembly method involves loading balls through filling slots (notches) on one or both sides of the raceway shoulders. This allows a higher ball count, up to a full complement, enabling higher load capacity. However, operational conditions may be restricted (details will be discussed in the cage type section).

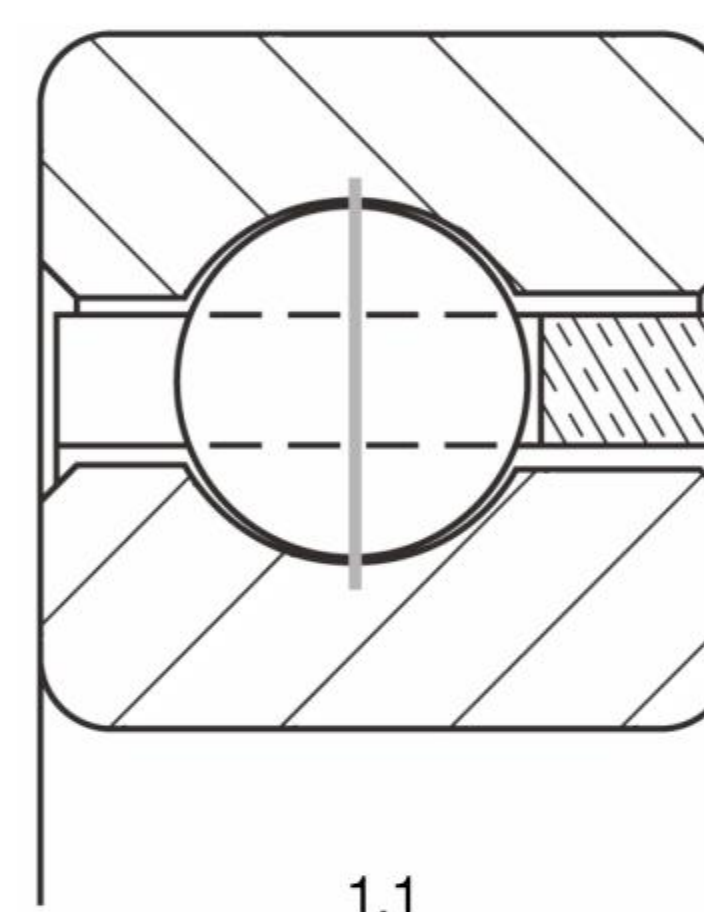
Type C bearings perform optimally with minimal radial clearance between the balls and raceways. Standard bearings are supplied with slight clearance for the following reasons:

- Interference fit with mounting components;
- Differential thermal expansion/contraction of steel raceways;
- Misalignment between shaft and housing, among other factors affecting clearance.

Under pure radial load, the contact area between balls and raceways is centered. Clearance may be adjusted (increased or decreased) to suit operating conditions.

For Type C bearings without filling slots, they can withstand bidirectional axial (thrust) loads in addition to radial loads. However, axial load capacity depends on post-installation clearance, which determines the contact angle under thrust load. Bearings with filling slots exhibit discontinuous ball-raceway contact under axial loads, reducing thrust capacity. If axial loads are present, the side with filling slots will have limited load-carrying ability.

When larger-than-standard radial clearance is used, Type C bearings develop a greater contact angle under axial load, enhancing thrust capacity. In such cases, a matched bearing pair should be used to minimize axial displacement under alternating thrust loads. This configuration effectively allows the bearing to function as an angular contact ball bearing rather than a radial-contact bearing.



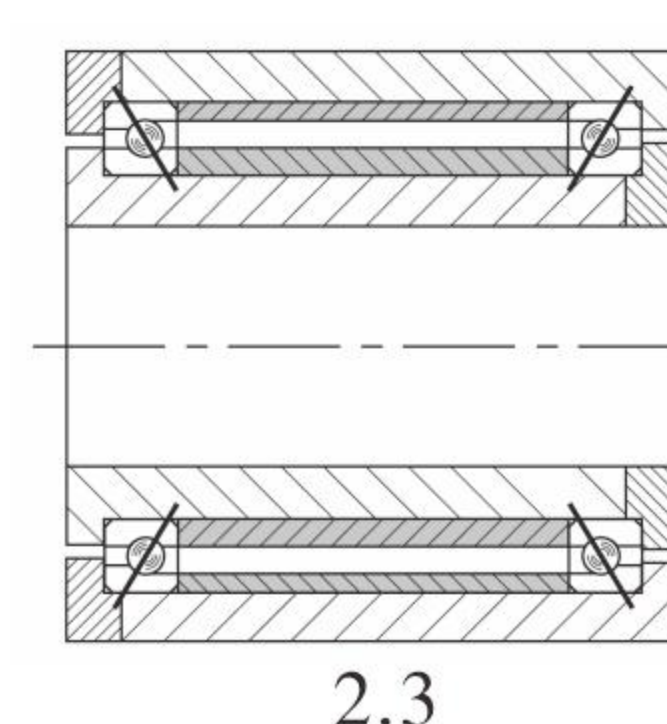
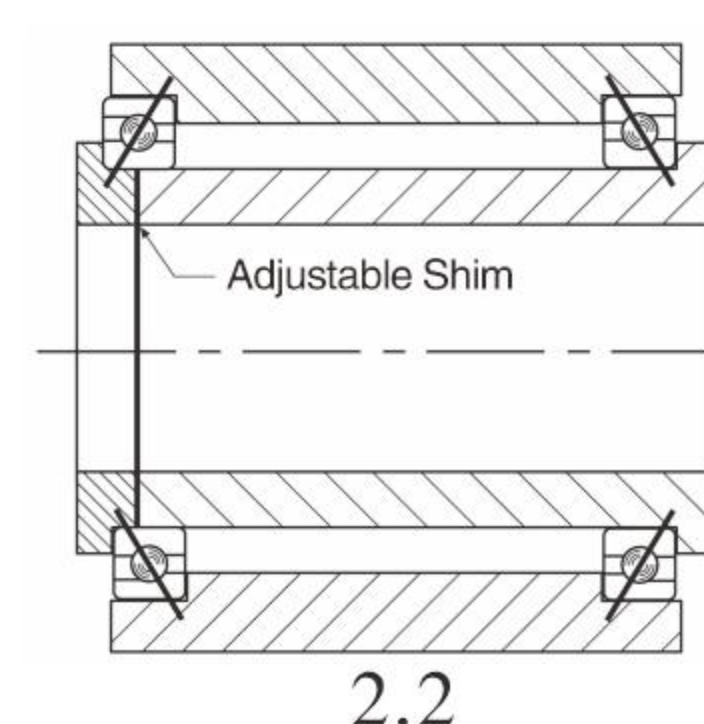
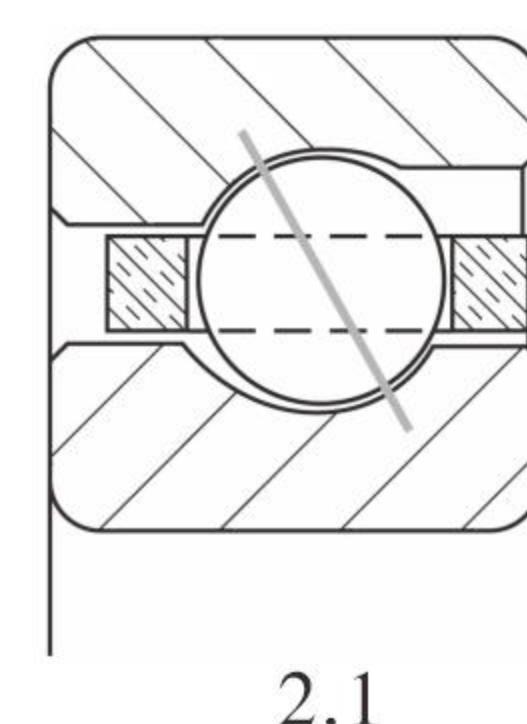
Type A – Angular Contact Ball Bearings (Figure 2.1)

Type A angular contact ball bearings differ from Type C bearings in that they are designed with sufficient radial clearance to establish a defined contact angle, enabling them to handle axial loads effectively. The standard contact angle for these bearings is 30°.

A key feature of Type A bearings is their assembly method. One bearing ring (typically the outer ring) has a tapered shoulder on one side. By utilizing thermal expansion/contraction differences between the inner and outer rings, the outer ring can be assembled with the inner ring, balls, and cage to form a non-separable unit. This design allows the bearing to withstand high radial loads along with unidirectional axial loads. When subjected to axial loads, the bearing's internal clearance can be adjusted to apply a controlled preload.

This assembly method enables Type A bearings to accommodate more balls than Type C bearings (without filling slots), resulting in a larger contact angle and higher axial load capacity.

Due to their unidirectional load-carrying capability, Type A bearings must be mounted in matched pairs (symmetrically arranged) to: Maintain the correct contact angle, Minimize axial displacement under alternating thrust loads.



2.1

2.2

2.3

The standard mounting configurations for Type A bearings are illustrated in Figures 2.2 and 2.3.

Figure 2.2 (Back-to-Back Mounting):

The contact lines converge outside the bearings, intersecting the shaft axis. This arrangement is commonly referred to as "back-to-back" (DB) mounting. The inner rings are adjusted using shims on the clamping ring to set bearing clearance. Initially, thicker shims are used to allow axial movement of the shaft relative to the housing. The total axial displacement and shim thickness are measured, and the shim thickness is then reduced by the sum of the axial displacement and desired preload. When two bearings are symmetrically mounted, eliminating internal clearance and creating elastic deformation between the balls and raceways, the assembly becomes a preloaded bearing unit.

Figure 2.3 (Face-to-Face Mounting):

The contact lines converge inside the bearings, intersecting the shaft axis. This is called "face-to-face" (DF) mounting. Clearance is adjusted by modifying the relative lengths of the spacers between the inner and outer rings. Typically, inner and outer spacers are of equal length, and paired bearings are manufactured with preset clearance. If the outer spacer is omitted, clearance can be adjusted using shims on the outer ring clamping plate.

When Type A bearings are mounted directly adjacent or with equal-length inner/outer spacers, they can be factory-processed as pre-matched sets:

Figure 2.4: Back-to-back (DB) pairing

Figure 2.5: Face-to-face (DF) pairing

Figure 2.6: Tandem (DT) pairing

For applications where radial space is insufficient for larger bearings, three, four, or more bearings may be combined to meet load requirements.

These matched sets adhere to strict internal tolerances and dimensional standards. Each bearing is marked with a "V" at the point of maximum radial runout to indicate the recommended starting position for installation (Figure 2.6).

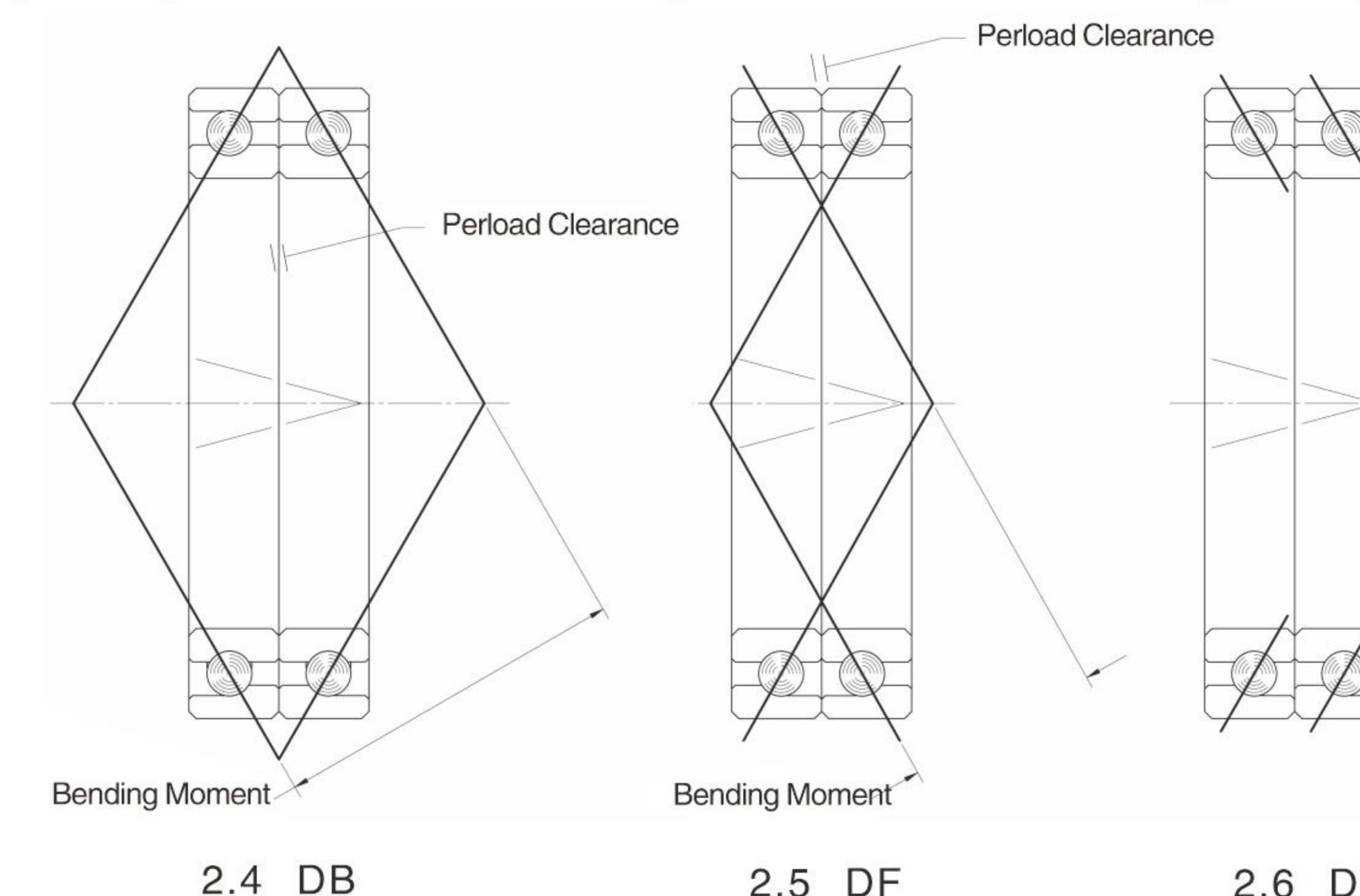
For the configurations in Figures 2.4 and 2.5, the bearing end faces are ground to ensure preload after installation.

Figure 2.4: A preset gap exists between the inner rings. When axially compressed during mounting, this gap closes, generating preload.

Figure 2.5: A preset gap exists between the outer rings, similarly creating preload when compressed.

Face-to-face configuration is suitable for applications with significant misalignment between the shaft and bearing housing bore, as well as for shafts with multiple bearing pairs.

When a single set of bearings is arranged face-to-face, sufficient spacing between the bearings is required to ensure adequate bending moment capacity. If the design demands, the face-to-face bearing assembly can serve as the fixed end, working in conjunction with other bearings to form a "fixed-floating" arrangement.



2.4 DB

2.5 DF

2.6 DT

Tandem configuration bearings offer higher single-direction axial load capacity but must be used in pairs with other bearings or bearing sets.

In a paired bearing arrangement, the total radial load is evenly distributed among each individual bearing. The load value should be multiplied by $n^{0.7}$ (where n is the number of bearings in the set) before verifying against the catalog's rated load specifications. For thrust-loaded bearing sets, the load is equally distributed among each bearing in the load direction.

Unless otherwise specified, the external end face dimensions of bearing sets are not strictly controlled. However, if precise end face dimensions are required for preloading purposes, universal grinding bearings should be considered. These bearings feature specially ground inner and outer end faces configured with specific clearances to ensure controlled preload and more flexible installation.

Type X – Four-Point Contact Ball Bearings

The key difference between Type X bearings and Type A/C bearings lies in their raceway geometry:

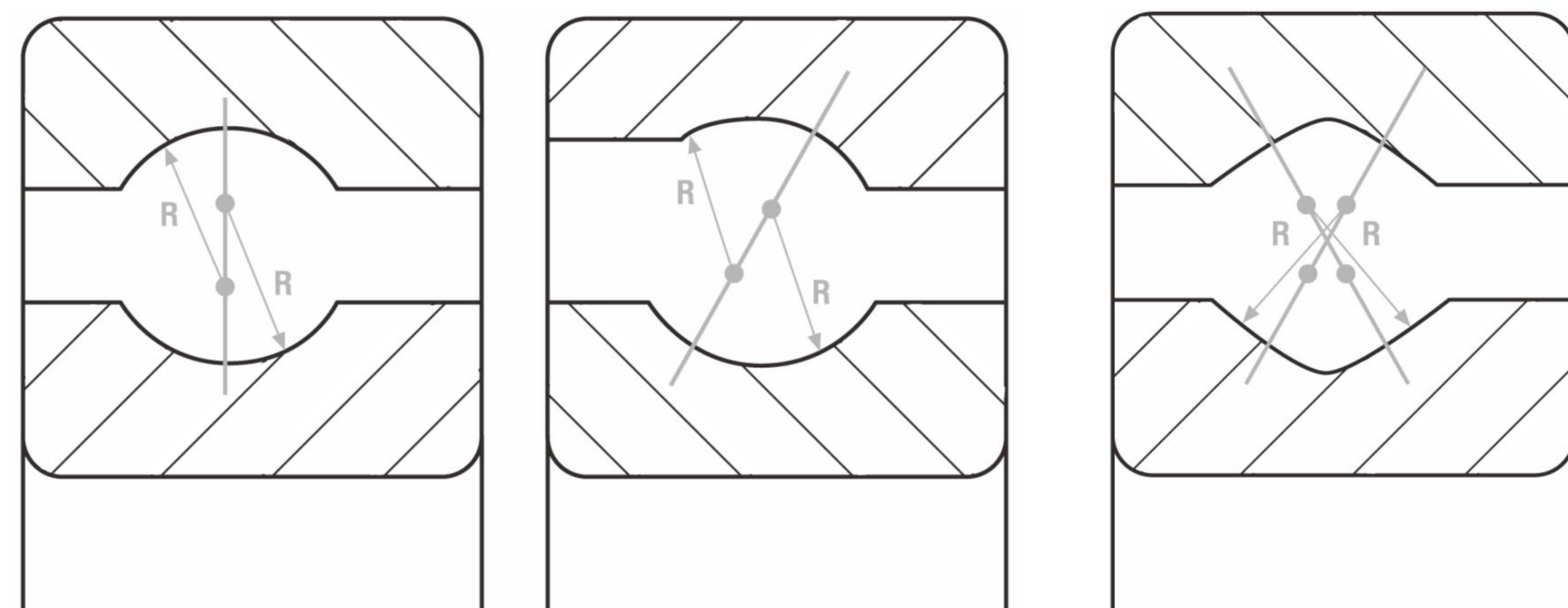
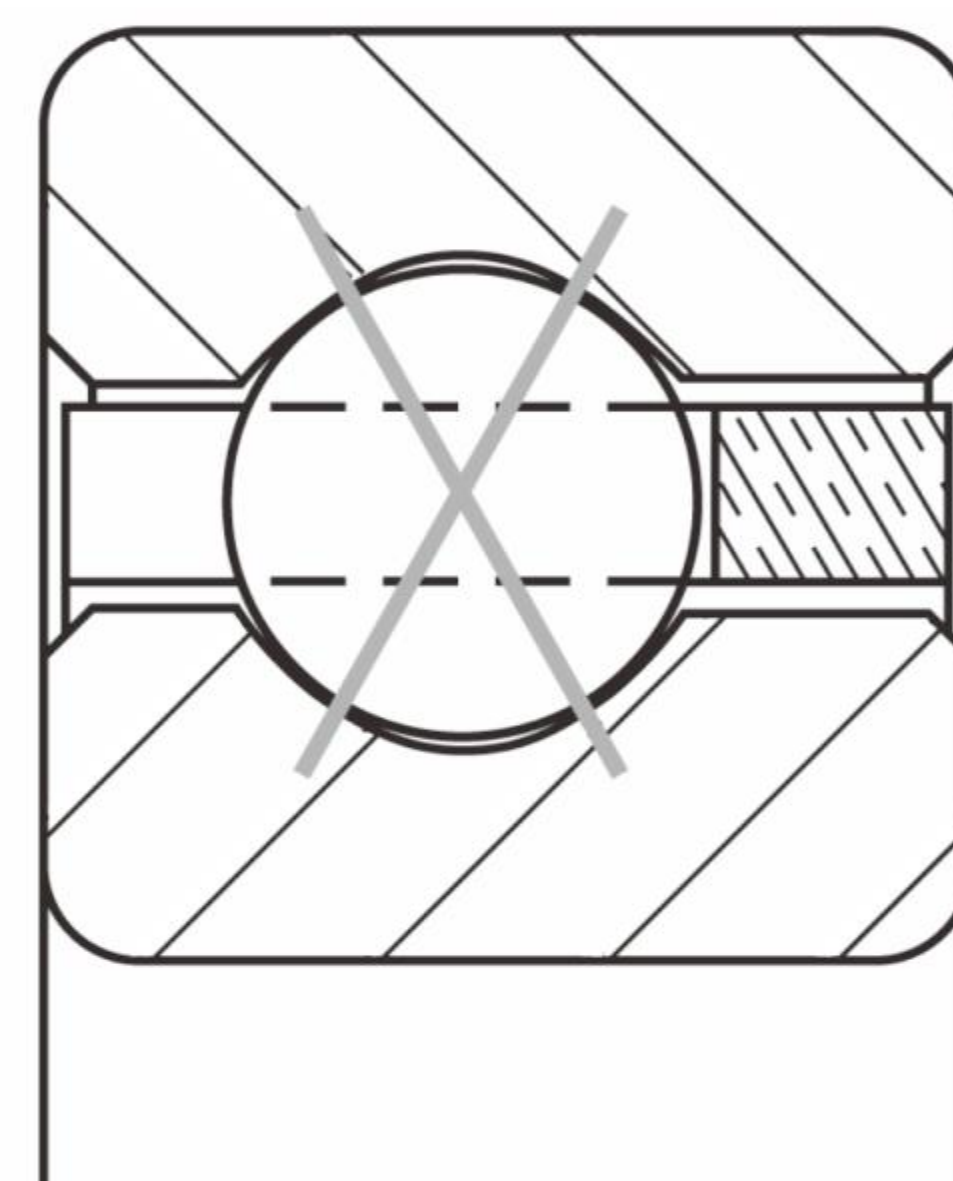
In Type C bearings, the centers of the raceway radii are aligned with the ball centerline.

In Type A bearings, the raceways contact the balls at an angle, with their radius centers offset symmetrically from the ball centerline.

Type X bearings feature two radius centers per side, both offset from the ball centerline. This unique design creates four contact points between the balls and raceways.

Like Type C bearings, Type X bearings with filling slots exhibit discontinuous contact trajectories, reducing both axial and radial load capacity and imposing speed limitations.

The groove depth of Type X bearings matches Type A/C bearings (25% of the ball diameter). Both the deep-groove design and four-point contact structure enable the bearing to handle combined radial, axial, and moment loads—similar to a back-to-back pair of Type A bearings.

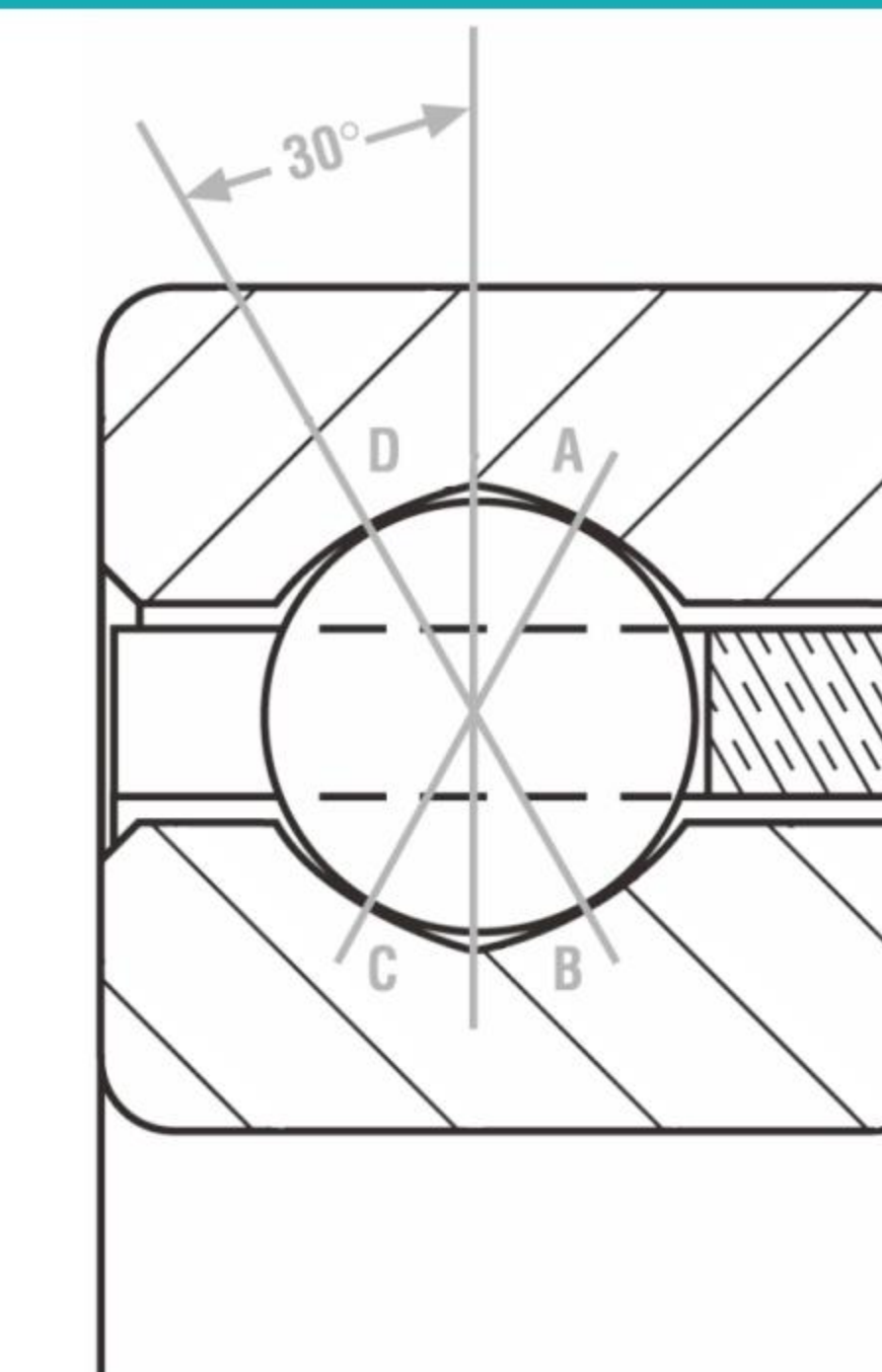


Precision thin-Section bearings

An axial force acting on the inner ring from right to left is transmitted through contact point B between the raceway and the ball, then via the ball to point D, and finally to the outer ring and supporting components. The load path BD forms a contact angle of approximately 30° with the bearing's radial centerline.

Due to elastic deformation of the ball and raceway along the load transmission path, points A and C remain unloaded, allowing the ball to rotate smoothly about an axis perpendicular to line BD.

When the inner ring is subjected to an axial force from left to right, a similar force transmission process occurs through points A and C.



Moment or Overturning Moment Load

When subjected to a moment or overturning moment load, the bearing experiences effects similar to opposing axial loads acting on both sides. Under moment loading: One side of the bearing carries the load through points B and D, while points A and C remain unloaded.

The opposite side carries the load through points A and C, while points B and D are unloaded.

Radial loads are distributed equally along lines CA and BD. Under combined loading, the bearing's reaction forces are determined by the magnitude and direction of each individual load component.

Thanks to its ability to handle combined radial, axial, and moment loads, Type X bearings are often used to replace:

- (1) Matched pairs of angular contact ball bearings
- (2) Paired tapered roller bearings
- (3) Combinations of thrust bearings (ball/roller) and deep groove ball bearings

Like Type C bearings, Type X bearings typically have specified radial clearance. However, their contact angle and axial load capacity are independent of this clearance. In applications with high axial loads or bending moments, reduced clearance is recommended to prevent excessive contact angles.

For applications requiring higher stiffness, Type X bearings can be preloaded by using oversized balls that exceed the standard raceway space. This creates elastic deformation between the balls and raceways even without external loads.

Important Note: Type X bearings are generally designed for individual use. Using two Type X bearings on one shaft may generate additional frictional torque.



Bearing Specification Table

Item	Description
Rings & Balls	Material
Ring & Ball	Gcr15 vacuum–degassed steel 9Cr18 stainless steel
C/X–Type Bearings	P–type – Brass or non–metallic composite L–type – Nylon, glass fiber reinforced
A–Type Bearings	R–type – Brass or non–metallic composite G–type – Nylon, glass fiber reinforced
Seals	Nitrile rubber (Shore 70A), steel reinforced
	Heat Treatment
Rings	Quenched and dimensionally stabilized for –54° C to +121° C (–65° F to +250° F) GCr15 hardness: 62–64 HRC
Balls	9Cr18 hardness: 58–62 HRC
Precision	Precision
Ring Dimensions Ring Face Runout Balls	P6、P5 P6、P5 G10 G5
	Radial Clearance & Contact Angle
C–Type Bearings X–Type Bearings	Designed with sufficient radial clearance to maintain recommended operational clearance post–installation. Trapezoidal raceways create dual 30° contact angles under radial load. Maintains recommended operational clearance post–installation.
A–Type Bearings	Unmounted bearings exhibit 30° contact angle and radial clearance under axial load. Paired configurations allow adjustable preload/clearance ranges.
	Cage Design
C/X–Type Bearings A–Type Bearings	Crown–type cage Solid ribbon cage with circular pockets
	Other
Quality Control	CHG quality process certified by authorized institutions
Identification	Outer ring marked with "CHG", model & batch codes
Cleaning	Multi–stage immersion with solvent/cleaning fluid agitation
Corrosion	ProtectionRust–preventive oil
Packaging	Heat–sealed plastic wrap + carton

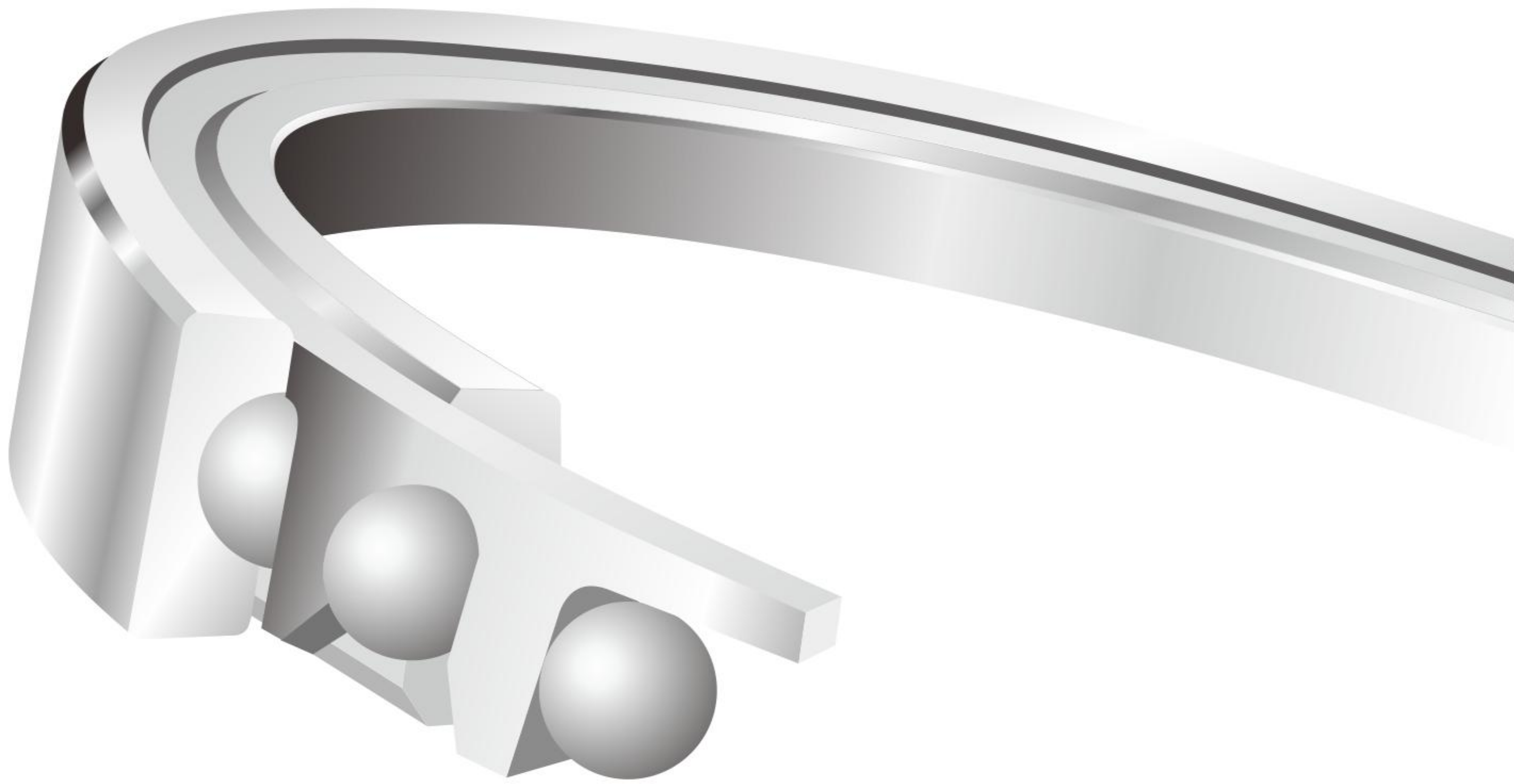
Note: Alternative packaging, lubricants, and cleanroom facilities available upon request.

Cage Type

The most important role of bearing cage is to evenly space the rolling element, avoid their mutual contact, and minimize the movement error of rolling elements due to different loads and the elastic deformation of bearings and related components. If there is no cage, the rolling elements will contact each other. Due to the shape of the rolling elements and its opposite movement direction with the contact surface, the relatively high contact stress and relative velocity may be generated. The friction produced between the rolling elements, and the friction particles in the raceway will affect the bearing service life and the friction torque characteristics.If a large friction torque change is allowed, the bearing can be full complement and be used at low speed.

A letter is used to identify each cage of CHC bearing in the code system, and the standard P, R, L and G type cages can be applied to wide applications . However,according to actual requirements,it can be made with different materials; for appropriate bearing selection, please contact CHG application engineers for help.

Crown Shape Cage



This type of cage is used for C–type and X–type bearings, and is installed after installation of inner ring and balls with the eccentrically assembling method.Then teeth in the crown–shaped cage pockets can generate the elastic deformation,to wrap the halls and fix the cage. At room temperature, the cage is in the center position of the balls; when it is expanded by the temperature differences, it may be positioned by the rib of inner ring or outer ring.Strictly control the cage roundness and thickness difference,to ensure its accurate positioning in any case and to avoid “Whipping” in the cage, to contact with the bearing ring rib, to achieve a smooth operation.

Under special operation conditions, different cage materials can be selected, such as stainless steel or phenolic resin, polytetrafluoroethylene , polyester imide, polyether ether ketone, and other non–metallic materials.

- The Stainless steel cage is used in stainless steel bearings or under high temperature conditions, to achieve its corrosion resistance.
- The phenolic resin is used under the conditions of weight reduce and keeping the cage to absorb the oil.

The crown–shaped cage produced with non–metallic materials is used under the conditions that the bearing section is too small to use two– piece riveted cage (C–type bearing or a smaller cross–section) and at high speed, as well as the conditions with low torque at low speed.For more details about the bearing applications, please contact CHG Bearing.

CHG Bearing Cage Types

Code	Description	Design features	Notes	Materials	Design
P	WholePiece crown shaped cage	Standard number of balls, for C –type and X–type bearings with “HA” ~ “HG” sections	The common cage does not apply to low friction torque applications. If the temperature is lower than – 54℃ or higher than 121 ℃, please consult CHG	Brass or non-metallic composite materials	
R	WholePiece Round pocket cage	Standard number of balls, for A –type” bearings with “HA” . “HG” sections	The common cage applies to low fiction torque applications.f the temperature is lower than –54℃ or higher than 121℃, please consult CHG	Brass or non-metallic composite materials	
L	WholePiece crown shaped cage	Standard number of balls, for C –type and X–type bearings with “HA” ~ “HG” sections	If the temperature is lower than– –54℃ or higher than 121℃, please consult CHG	Glass fiber reinforced nylon	
G	WholePiece molded cage	Standard number of balls, for A –type bearings with “HHA” sections	If the temperature is lower than– –54℃ or higher than 121℃, please consult CHG	Glass fiber reinforced nylon	
D	WholePiece mechanically manufactured crown cage	Standard number of balls, for C –type and X– type bearings in low friction torque, light load or vacuum applications	It is not recommended for the operating temperature above 121℃, it has a longer service life than P– –type cage, but its prices higher	Phenolic resin	
H	WholePiece mechanically manufactured circular pocket	Standard number of balls, for A –type bearings in low friction torque, light load or vacuum applications	It is not recommended for the operating temperature above 121 C, it has a longer service life than P –type cage, but its price is higher.	Phenolic resin	
N	Molded crown shaped cage	A slight increase of the number of balls, For the C –type and X– type bearings, can be used for the bearings with the size of more than 4 inch.	The projection on the shaft or the bearing housing can clamp the cage and separate it from the bearing, and it is maximum operating temperature is 82℃.	Nylon	
J	Molded rounded Pocket cage	A slight increase of the number of balls,for A–type bearings can be used for the bearings with the size of more than 4 inch.	Its recommended maximum operating temperature is 82℃.	Nylon	
X	WholePiece molded crown shaped cage	Excellent performances in vacuum environment	Special order	Polyetherether ketone	
Q	WholePiece molded round pocket cage	Excellent performances in vacuum environment	Special order	Polyetherether ketone	
F	Full ball bearings	Maximum number of balls	Due to the fiction among the balls, it has big friction torque and low speed, and it is not recommended For high– speed applications. There should be counterbore in C type and X–type bearings.	GCr15/G95Cr18	
S	Helical coil spring cage	A decreased number of balls, for C –type and X–type bearings in low– friction torque and high temperature applications.	Increased assembling cost. It can be used only PTFE cage is unavailable. It is only used in low speed and light load applications.	Austenitic stainless steel	
Z	Spacer Blocks	Standard number of balls, for A –type bearings in low friction torque applications,to prevent spacer slugs	It is not recommended for use when the temperature exceeds 121° C and the linear velocity at the pitch circle exceeds 152 m/min (e.g., the maximum speed of KA040CZ0 is 450 RPM).	PTEE Tube	
Z	Toroid ball spacer	Increased number of ball, for X – –type bearings in low friction torque applicationto prevent spacer skew.	It is not recommended for use at the pitch line speed of higher than 152m/min, PTFE temperature of lower than 121 ℃ or Vespel* temperature of lower than 260℃.	Vespel*P–I, PTFE, Polyamide plastic.	
Z	Spacer ball	There should be counterbore in C type and X– –type bearings and it is used in low speed and relatively high friction torque applications.	Increased number of balls, for A –type bearing in low friction applications.	Steels in line with the requirements of GB/T308 (spacer Balls is slightly smallerThan the carrying balls)	

Sheet 1 Type C Bearing Precision Grade Tolerance ABEC1

0.0001 in.

d/in.		Δdmp 1)		Kia/Sia	ΔBs		ΔDmp 1)		Kea/Sea	ΔCs	
Over	To	max	min	max	max	min	max		max	max	min
–	1	0	–4	5	0	–50	0	–5	8	Same As Inner Ring	
1	1.5	0	–5	6	0	–50	0	–5	8		
1.5	2.5	0	–6	8	0	–50	0	–5	10		
2.5	3	0	–6	8	0	–50	0	–6	10		
3	4	0	–8	10	0	–50	0	–6	12		
4	4.5	0	–8	10	0	–50	0	–8	14		
4.5	5	0	–10	12	0	–50	0	–8	14		
5	6.5	0	–10	12	0	–50	0	–10	16		
6.5	7	0	–10	12	0	–50	0	–10	16		
7	9	0	–12	16	0	–50	0	–12	18		
9	12	0	–14	18	0	–50	0	–14	20		
12	14	0	–16	18	0	–100	0	–16	20		
14	16	0	–18	18	0	–100	0	–18	20		
16	18	0	–18	20	0	–100	0	–18	20		
18	20	0	–20	20	0	–100	0	–20	20		
20	30	0	–30	20	0	–100	0	–30	20		
30	40	0	–40	20	0	–100	0	–40	20		

Not applicable to manufacturer–preloaded bearing

Table 2 Type A and Type X Bearing Precision Grade Tolerance ABEC1

0.0001 in.

d/in.		Δdmp 1)		Kia/Sia	ΔBs		ΔDmp 1)		Kea/Sea	ΔCs	
Over	To	max	min	max	max	min	max	min	max	max	min
–	1	0	–4	3	0	–50	0	–5	4	Same As Inner Ring	
1	1.5	0	–5	4	0	–50	0	–5	4		
1.5	2	0	–6	5	0	–50	0	–5	5		
2	2.5	0	–6	5	0	–50	0	–6	5		
2.5	3	0	–8	6	0	–50	0	–6	6		
3	4	0	–8	6	0	–50	0	–6	6		
4	4.5	0	–8	6	0	–50	0	–8	8		
4.5	5	0	–10	8	0	–50	0	–8	8		
5	6.5	0	–10	10	0	–50	0	–10	10		
6.5	7	0	–10	10	0	–50	0	–12	10		
7	9	0	–12	12	0	–50	0	–12	12		
9	12	0	–14	14	0	–50	0	–14	14		
12	14	0	–14	14	0	–100	0	–14	14		
14	18	0	–16	16	0	–100	0	–16	16		
18	30	0	–18	18	0	–100	0	–18	18		
30	40	0	–20	20	0	–100	0	–20	20		

- 1) Not applicable to manufacturer–preloaded bearing
- 2) Please refer to Table 6 for width to lernance, revised for Duplex Type A Bearings

Table 3 Type C、X and A Tolerance ABEC3

0.0001 in.

d/in.		△dmp 1)		Kia/Sia		△Bs		△Dmp 1)		Kea/Sea		△Cs	
Over	To	max	min	max	max	min	max	min	max	max	min	max	min
—	1	0	−2	3	0	−50	0	−3	4	Same As Inner Ring			
1	1.5	0	−3	4	0	−50	0	−3	4				
1.5	2.5	0	−4	4	0	−50	0	−4	5				
2.5	3	0	−4	4	0	−50	0	−4	6				
3	4	0	−5	5	0	−50	0	−4	6				
4	4.5	0	−5	5	0	−50	0	−5	8				
4.5	5	0	−6	6	0	−50	0	−5	8				
5	6.5	0	−6	6	0	−50	0	−6	9				
6.5	7	0	−6	6	0	−50	0	−7	10				
7	9	0	−4	8	0	−50	0	−7	10				
9	11	0	−8	10	0	−50	0	−8	12				
11	12	0	−8	10	0	−50	0	−9	14				
12	14	0	−8	12	0	−100	0	−9	14				
14	18	0	−9	14	0	−100	0	−10	16				
18	20	0	−10	16	0	−100	0	−12	18				

1) Not applicable to manufacturer—preloaded bearing

2) Please refer to Table 7 for width to larence, revised for Duplex Type A Bearings

Sheet 4 Tolerance ABEC 5

0.0001 in.

d/in.		△dmp 1)		Kia		Sia		△Bs		△Dmp 1)		Kea		Sea		△Cs	
Over	To	max	min	max	max	max	min	max	min	max	min	max	max	max	max	max	min
—	1.5	0	−2	2	3	0	−50	0	−2	2	3	Same As Inner Ring					
1.5	2.5	0	−3	2	3	0	−50	0	−3	3	4						
2.5	3	0	−3	2	3	0	−50	0	−3	4	5						
3	4	0	−3	3	4	0	−50	0	−3	4	5						
4	4.5	0	−3	3	4	0	−50	0	−4	4	5						
4.5	5	0	−4	3	4	0	−50	0	−4	4	5						
5	7	0	−4	3	4	0	−50	0	−5	5	6						
7	9	0	−5	4	5	0	−50	0	−5	5	6						
9	11	0	−5	5	6	0	−50	0	−5	6	7						
11	12	0	−5	5	6	0	−50	0	−6	7	8						
12	14	0	−6	5	7	0	−100	0	−6	7	8						
14	18	0	−6	7	8	0	−100	0	−7	8	9						
18	20	0	−7	8	9	0	−100	0	−8	9	10						

1) Not applicable to manufacturer—preloaded bearing

2) Please refer to Table 7 for width to larence, revised for Duplex Type A Bearings

Precision thin–Section bearings

Sheet 5 Tolerance ABEC 7

0.0001 in.

d/in.		△dmp 1)		Kia/Sia		△Bs		△Dmp 1)		Kea/Sea		△Cs	
Over	To	max	min	max	max	min	max	min	max	max	min	max	min
—	1	0	−1.5	1.5	0	−50	0	−2	2	Same As Inner Ring			
1	2.5	0	−2	1.5	0	−50	0	−2	2				
2.5	3	0	−2	1.5	0	−50	0	−3	2				
3	4	0	−2.5	2	0	−50	0	−3	2				
4	4.5	0	−2.5	2	0	−50	0	−4	3				
4.5	6.5	0	−3	3	0	−50	0	−4	3				
6.5	7	0	−3	3	0	−50	0	−4	4				
7	9	0	−4	3	0	−50	0	−4	4				
9	11	0	−5	4	0	−50	0	−5	4				
11	12	0	−5	4	0	−50	0	−5	5				
12	14	0	−5	4	0	−100	0	−6	5				

1) Not applicable to manufacturer—preloaded bearing

2) Please refer to Table 6 for width to larence, revised for Duplex Type A Bearings

Table 6 Modified Width Tolerance for Type A Bearings

0.0001 in.

d/in.		△Bs 1)	
Over	To	max	min
—	2	0	−200
2	5	0	−300
5	14	0	−400
14	40	0	−500

Single ring deviation for Type A Bearings in paired mounting

Table 7 Chamfer Limit Values

in.

rs min	rs max		ras max
	radial	axial	
0.008	0.02	0.025	0.008
0.015	0.035	0.05	0.015
0.025	0.05	0.055	0.025
0.04	0.065	0.07	0.04
0.06	0.085	0.09	0.06
0.08	0.125	0.13	0.08

Single ring deviation for Type A Bearings in paired mounting

Table 8 Radical Clearance

0.0001 in.

d/in.		Gr 1)									
		C型		X型							
		ABEC 1				ABEC 3		ABEC 5		ABEC 7	
Over	To	min	max	min	max	min	max	min	max	min	max
—	1	10	16	10	15	7	11	5	9	4	8
1	1.5	12	18	12	17	8	12	5	9	5	9
1.5	2.5	12	24	12	22	8	18	5	9	5	10
2.5	3	12	24	12	22	8	18	6	12	6	12
3	4	16	28	16	26	10	20	6	12	6	12
4	4.5	16	28	16	26	10	20	8	14	8	14
4.5	5	20	34	20	30	12	22	8	14	8	14
5	6.5	20	34	20	30	12	22	10	16	8	14
6.5	7	20	34	20	30	14	24	10	16	8	14
7	9	24	42	24	34	14	24	10	16	8	14
9	11	28	48	28	38	16	26	10	16	10	16
11	12	28	48	28	38	18	28	12	18	10	16
12	14	32	52	28	38	18	28	12	18	12	18
14	18	36	56	32	42	20	30	14	20	—	—
18	20	40	60	36	46	24	34	14	22	—	—
20	30	60	80	36	46	—	—	—	—	—	—
30	40	80	100	40	50	—	—	—	—	—	—

1) Not applicable to manufacturer—preloaded bearing

Sheet 9 Type C Bearing Precision Grade Tolerance ABEC1 (μ m)

μ m

d/in.		Δdmp 1)		Kia/Sia	ΔBs		ΔDmp 1)		Kea/Sea	ΔCs	
Over	To	max	min	max	max	min	max	min	max	max	min
—	1	0	−10	13	0	−127	0	−13	20	Same As Inner Ring	
1	1.5	0	−13	15	0	−127	0	−13	20		
1.5	2.5	0	−15	20	0	−127	0	−13	25		
2.5	3	0	−15	20	0	−127	0	−15	25		
3	4	0	−20	25	0	−127	0	−15	30		
4	4.5	0	−20	25	0	−127	0	−20	36		
4.5	5	0	−25	30	0	−127	0	−20	36		
5	6.5	0	−25	30	0	−127	0	−25	41		
6.5	7	0	−25	30	0	−127	0	−25	41		
7	9	0	−30	41	0	−127	0	−30	46		
9	12	0	−36	46	0	−127	0	−36	51		
12	14	0	−41	46	0	−254	0	−41	51		
14	16	0	−46	46	0	−254	0	−46	51		
16	18	0	−46	51	0	−254	0	−46	51		
18	20	0	−51	51	0	−254	0	−51	51		
20	30	0	−76	51	0	−254	0	−76	51		
30	40	0	−102	51	0	−254	0	−102	51		

Not applicable to manufacturer–preloaded bearing

Sheet 10 Type A&X Bearing Precision Grade Tolerance ABEC1 (μ m)

μ m

d/in.		Δdmp 1)		Kia/Sia	ΔBs		ΔDmp 1)		Kea/Sea	ΔCs	
Over	To	max	min	max	max	min	max	min	max	max	min
—	1	0	−10	8	0	−127	0	−13	10	Same As Inner Ring	
1	1.5	0	−13	10	0	−127	0	−13	10		
1.5	2	0	−15	13	0	−127	0	−13	13		
2	2.5	0	−15	13	0	−127	0	−13	13		
2.5	3	0	−15	15	0	−127	0	−15	15		
3	4	0	−20	15	0	−127	0	−15	15		
4	4.5	0	−20	15	0	−127	0	−20	20		
4.5	5	0	−25	20	0	−127	0	−20	20		
5	6.5	0	−25	25	0	−127	0	−25	25		
6.5	7	0	−25	25	0	−127	0	−30	25		
7	9	0	−30	30	0	−127	0	−30	30		
9	12	0	−36	36	0	−127	0	−36	36		
12	14	0	−36	36	0	−254	0	−36	36		
14	18	0	−41	41	0	−254	0	−41	41		
18	30	0	−46	46	0	−254	0	−46	46		
30	40	0	−51	51	0	−254	0	−51	51		

1) Not applicable to manufacturer–preloaded bearing

2) Please refer to Table 14 for width to lérance, revised for Duplex Type A Bearings

Sheet 11 Type C 、X and A Tolerance ABEC 3 (μ m)

μ m

d/in.		Δdmp 1)		Kia/Sia	ΔBs		ΔDmp 1)		Kea/Sea	ΔCs	
Over	To	max	min	max	max	min	max	min	max	max	min
—	1	0	−5	8	0	−127	0	−8	10	Same As Inner Ring	
1	1.5	0	−8	10	0	−127	0	−8	10		
1.5	2.5	0	−10	10	0	−127	0	−10	13		
2.5	3	0	−10	10	0	−127	0	−10	15		
3	4	0	−13	13	0	−127	0	−10	15		
4	4.5	0	−13	13	0	−127	0	−13	20		
4.5	5	0	−15	15	0	−127	0	−13	20		
5	6.5	0	−15	15	0	−127	0	−15	23		
6.5	7	0	−15	15	0	−127	0	−18	25		
7	9	0	−18	20	0	−127	0	−18	25		
9	11	0	−20	25	0	−127	0	−20	30		
11	12	0	−20	25	0	−127	0	−23	36		
12	14	0	−20	30	0	−254	0	−23	36		
14	18	0	−23	36	0	−254	0	−25	41		
18	20	0	−25	41	0	−254	0	−30	46		

1) Not applicable to manufacturer–preloaded bearing

2) Please refer to Table 14 for width to lérance, revised for Duplex Type A Bearings

Sheet 12 Tolerance ABEC 5 (μ m)

μ m

d/in.		Δdmp 1)		Kia	Sia	ΔBs		ΔDmp 1)		Kea	Sea	ΔCs	
Over	To	max	min	max	max	max	min	max	min	max	max	max	min
—	1.5	0	−5	5	8	0	−127	0	−5	5	8	Same As Inner Ring	
1.5	2.5	0	−8	5	8	0	−127	0	−8	8	10		
2.5	3	0	−8	5	8	0	−127	0	−8	10	13		
3	4	0	−8	8	10	0	−127	0	−8	10	13		
4	4.5	0	−8	8	10	0	−127	0	−10	10	13		
4.5	5	0	−10	8	10	0	−127	0	−10	10	13		
5	7	0	−10	8	10	0	−127	0	−13	13	15		
7	9	0	−13	10	13	0	−127	0	−13	13	15		
9	11	0	−13	13	15	0	−127	0	−13	15	18		
11	12	0	−13	13	15	0	−127	0	−15	18	20		
12	14	0	−15	13	18	0	−254	0	−15	18	20		
14	18	0	−15	18	20	0	−254	0	−18	20	23		
18	20	0	−18	20	23	0	−254	0	−20	23	25		

1) Not applicable to manufacturer–preloaded bearing

2) Please refer to Table 14 for width to lérance, revised for Duplex Type A Bearings

Sheet 13 Tolerance ABEC 7 (μ m)

μ m

d/in.		Δdmp 1)		Kia/Sia	ΔBs		ΔDmp 1)		Kea/Sea	ΔCs	
Over	To	max	min	max	max	min	max	min	max	max	min
—	1	0	−4	4	0	−127	0	−5	5	Same As Inner Ring	
1	2.5	0	−5	4	0	−127	0	−5	5		
2.5	3	0	−5	4	0	−127	0	−8	5		
3	4	0	−6	5	0	−127	0	−8	5		
4	4.5	0	−6	5	0	−127	0	−10	8		
4.5	6.5	0	−8	8	0	−127	0	−10	8		
6.5	7	0	−8	8	0	−127	0	−10	10		
7	9	0	−10	8	0	−127	0	−10	10		
9	11	0	−13	10	0	−127	0	−13	10		
11	12	0	−13	10	0	−127	0	−13	13		
12	14	0	−13	10	0	−254	0	−15	13		

- 1) Not applicable to manufacturer–preloaded bearing
2) Please refer to Table 14 for width to lernance, revised for Duplex Type A Bearings

Table 14 Modified Width Tolerance for Type A Bearings (μ m)

d/in.		ΔBs 1)	
Over	To	max	min
—	2	0	−508
2	5	0	−762
5	14	0	−1,016
14	40	0	−1,270

Single ring deviation for Type A Bearings in paired mounting

Table 15 Chamfer Limit Values (mm)

mm

r _s min		r _s max		r _{as} max
in.	min	radial	axial	
0.008	0.2	0.5	0.6	0.4
0.015	0.4	0.9	1.3	
0.025	0.6	1.3	1.4	
0.04	1.0	1.7	1.8	1.0
0.06	1.5	2.2	2.3	1.5
0.08	2.0	3.2	3.3	2.0

Single ring deviation for Type A Bearings in paired mounting

Table 16 Radical Clearance (μ m)

μ m

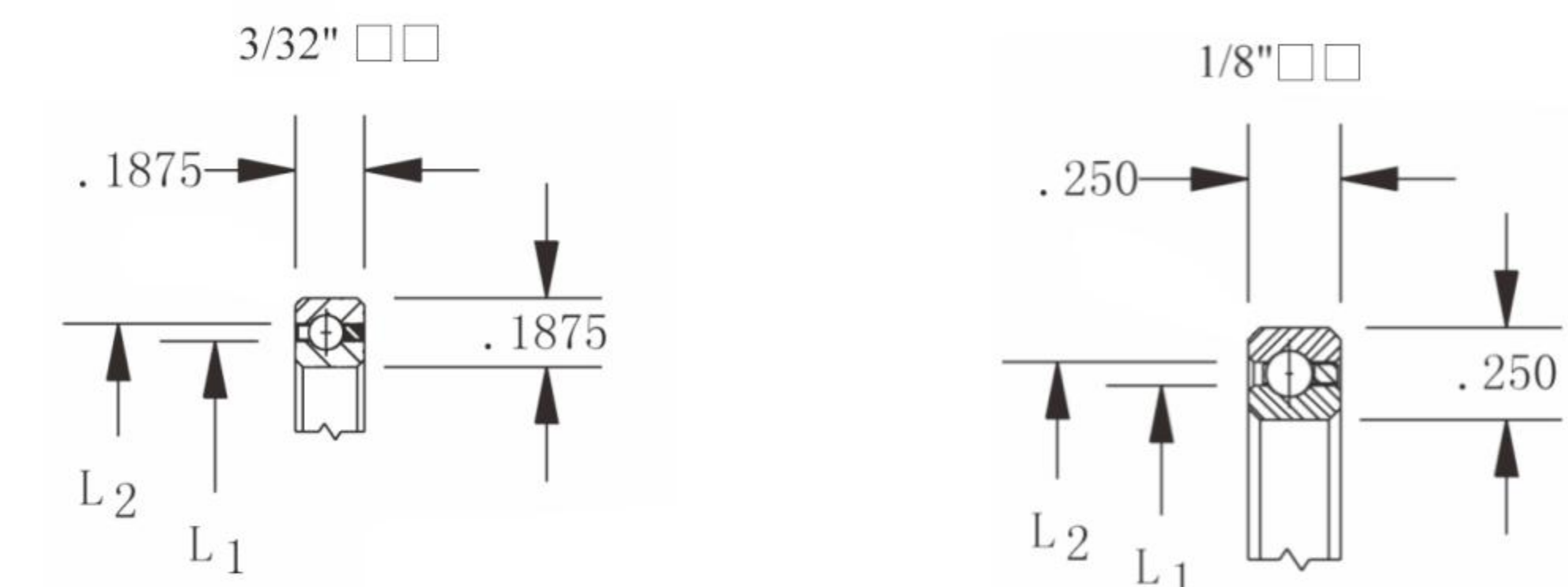
d/in.		Gr 1)									
		C型		X型		ABEC 1		ABEC 3		ABEC 5	
		min	max	min	max	min	max	min	max	min	max
Over	To	min	max	min	max	min	max	min	max	min	max
—	1	25	41	25	38	18	28	13	23	10	20
1	1.5	30	46	30	43	20	30	13	23	13	23
1.5	2.5	30	61	30	56	20	46	13	23	13	25
2.5	3	30	61	30	56	20	46	15	30	15	30
3	4	41	71	41	66	25	51	15	30	15	30
4	4.5	41	71	41	66	25	51	20	36	20	36
4.5	5	51	86	51	76	30	56	20	36	20	36
5	6.5	51	86	51	76	30	56	25	41	20	36
6.5	7	51	86	51	76	36	61	25	41	20	36
7	9	61	107	61	86	36	61	25	41	20	36
9	11	71	122	71	97	41	66	25	41	25	41
11	12	71	122	71	97	46	71	30	46	25	41
12	14	81	132	71	97	46	71	30	46	30	46
14	18	91	142	81	107	51	76	36	51	—	—
18	20	102	152	91	117	61	86	36	56	—	—
20	30	152	203	91	117	—	—	—	—	—	—
30	40	203	254	102	127	—	—	—	—	—	—

- 1) Not applicable to manufacturer–preloaded bearing

Dimensional Selection Tables for Standard Thin–Section Bearings

Open Series:

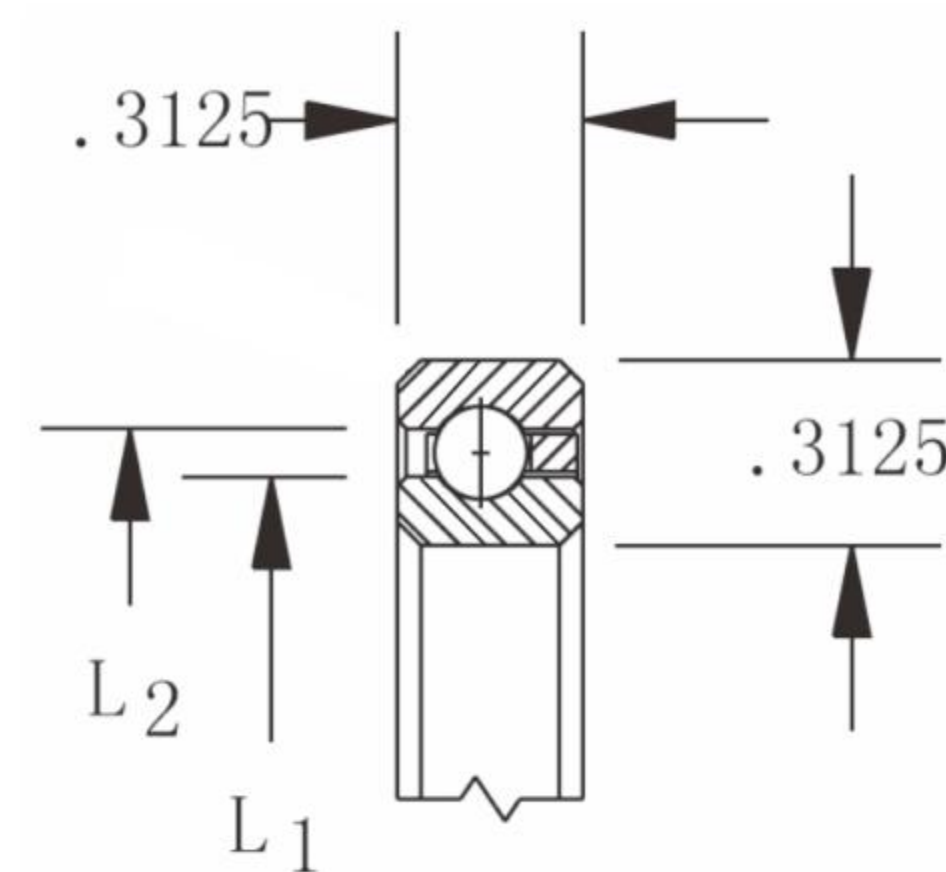
Radical Contact Typa C



HKAA Series							Approx. Wt(kg)
Bearing Number	Dimensions(in./mm)				Capacities(N)		
	d	D	L1	L2	Cor	Cr	
HKAA010C	1.000	1.375	1.142	1.236	1290	840	0.012
	25.4	34.925	29.0	31.4			
HKAA015C	1.500	1.875	1.642	1.736	1780	1000	0.018
	38.1	47.625	41.7	44.1			

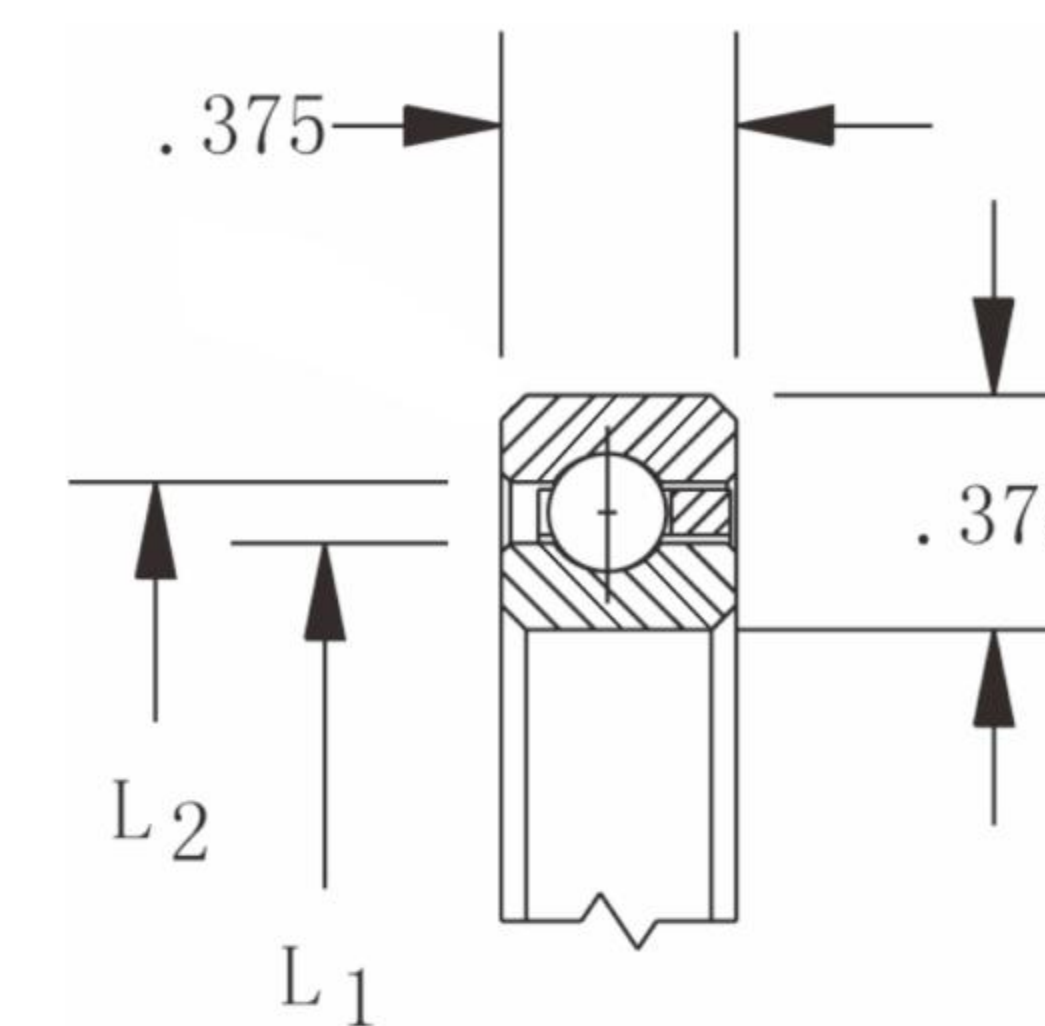
HKA Series							Approx. Wt(kg)
Bearing Number	Dimensions(in./mm)				Capacities(N)		
	d	D	L1	L2	Cor	Cr	
HKA020C	2	2.5	2.186	2.314	3020	1750	0.048
	50.8	63.5	55.5	58.8			
HKA025C	2.5	3	2.686	2.814	3690	1960	0.059
	63.5	76.2	68.2	71.5			
HKA030C	3	3.5	3.186	3.314	4400	2160	0.068
	76.2	88.9	80.9	84.2			
HKA035C	3.5	4	3.686	3.814	5070	2360	0.082
	88.9	101.6	93.6	96.9			
HKA040C	4	4.5	4.186	4.314	5730	2540	0.09
	101.6	114.3	106.3	109.6			
HKA042C	4.25	4.75	4.436	4.564	6090	2630	0.095
	107.95	120.65	112.7	115.9			
HKA045C	4.5	5	4.686	4.814	6400	2710	0.1
	114.3	127	119	122.3			
HKA047C	4.75	5.250	4.936	5.064	6760	2800	0.104
	120.65	133.35	125.4	128.6			
HKA050C	5	5.500	5.186	5.314	7070	2880	0.109
	127	139.7	131.7	135.0			
HKA055C	5.500	6.000	5.686	5.814	7780	3040	0.118
	139.7	152.4	144.4	147.7			
HKA060C	6.000	6.500	6.186	6.314	8450	3200	0.130
	152.4	165.1	157.1	160.4			
HKA065C	6.500	7.000	6.686	6.814	9110	3350	0.140
	165.1	177.8	169.8	173.1			
HKA070C	7.000	7.500	7.186	7.314	9780	3500	0.150
	177.8	190.5	182.5	185.8			
HKA075C	7.500	8.000	7.686	7.814	10450	3650	0.160
	190.5	203.2	195.2	198.5			
HKA080C	8.000	8.500	8.186	8.314	11110	3780	0.172
	203.2	215.9	207.9	211.2			
HKA090C	9.000	9.500	9.186	9.314	12490	4050	0.200
	228.6	241.3	233.3	236.6			
HKA100C	10.000	10.500	10.186	10.314	13820	4300	0.227
	254	266.7	258.7	262.0			
HKA110C	11.000	11.500	11.186	11.314	15160	4560	0.236
	279.4	292.1	284.1	287.4			
HKA120C	12.000	12.500	12.186	12.314	16540	4790	0.254
	304.8	317.5	309.5	312.8			

5/32" Steel ball



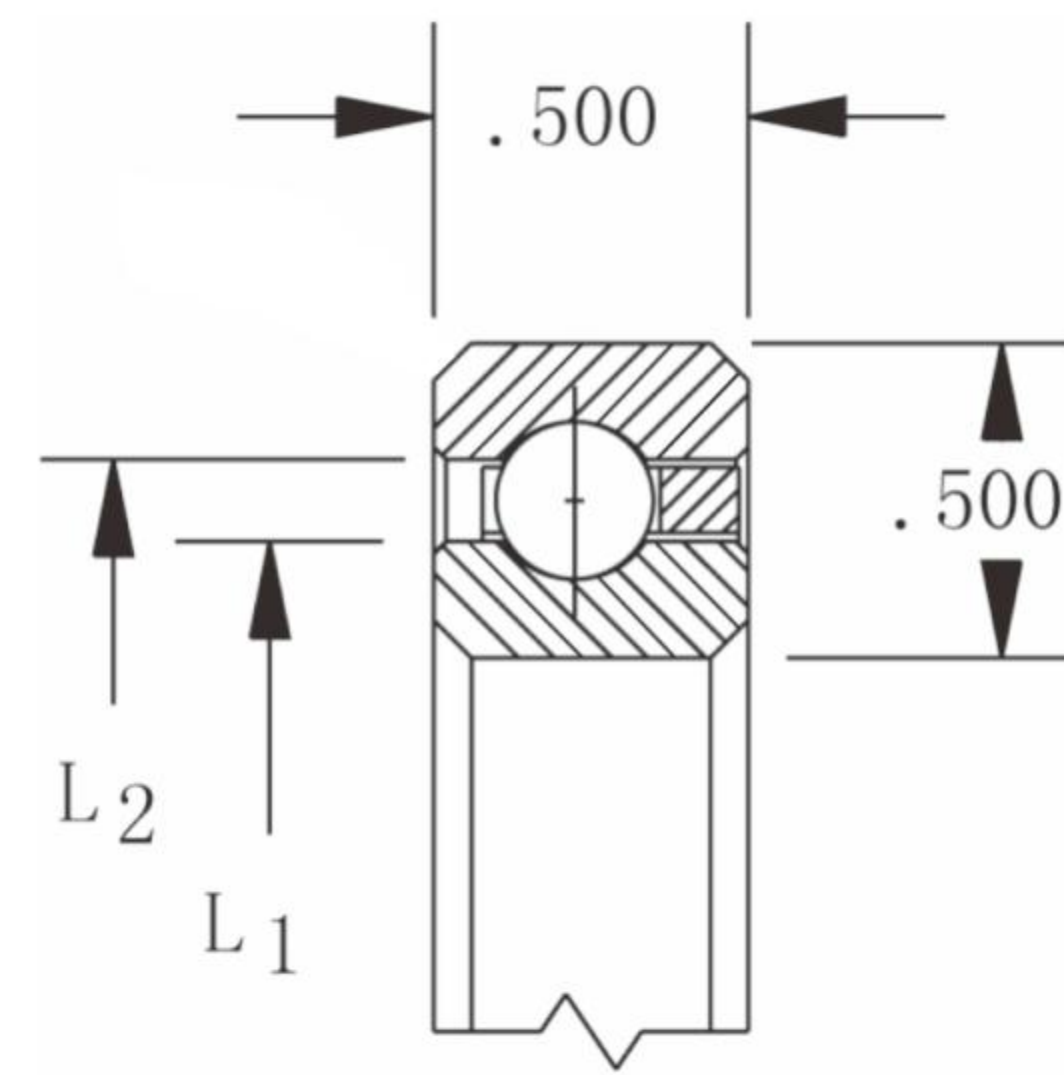
HKB Series							Approx. Wt(kg)
Bearing Number	Dimensions(in./mm)				Capacities(N)		
	d	D	L1	L2	Cor	Cr	
HKB020C	2	2.625	2.231	2.393	4130	2560	0.073
	50.8	66.675	56.7	60.8			
HKB025C	2.5	3.125	2.731	2.893	5070	2860	0.091
	63.5	79.375	69.4	73.5			
HKB030C	3	3.625	3.231	3.393	5960	3140	0.109
	76.2	92.075	82.1	86.2			
HKB035C	3.5	4.125	3.731	3.893	6850	3410	0.125
	88.9	104.775	94.8	98.9			
HKB040C	4	4.625	4.432	4.393	7780	3670	0.14
	101.6	117.475	107.5	111.6			
HKB042C	4.2	4.875	4.481	4.643	8130	3760	0.147
	107.95	123.825	113.8	117.9			
HKB045C	4.5	5.125	4.731	4.893	8670	3910	0.16
	114.3	130.175	120.2	124.3			
HKB047C	4.75	5.375	4.981	5.143	9020	4010	0.163
	120.65	136.525	126.6	130.6			
HKB050C	5	5.625	5.231	5.393	9560	4150	0.172
	127	142.875	132.9	137			
HKB055C	5.5	6.125	5.731	5.893	10490	4370	0.186
	139.7	155.575	145.6	149.7			
HKB060C	6	6.625	6.231	6.393	11380	4600	0.205
	152.4	168.275	158.3	162.4			
HKB065C	6.5	7.125	6.731	6.893	12270	4810	0.216
	165.1	180.975	171	175.1			
HKB070C	7	7.625	7.231	7.393	13200	5020	0.232
	177.8	193.675	183.7	187.8			
HKB075C	7.5	8.125	7.731	7.893	14090	5220	0.25
	190.5	206.375	196.4	200.5			
HKB080C	8	8.625	8.231	8.393	14980	5420	0.262
	203.2	219.075	209.1	213.2			
HKB090C	9	9.625	9.231	9.393	16800	5800	0.3
	228.6	244.475	234.5	238.6			
HKB100C	10	10.625	10.231	10.393	18620	6160	0.331
	254	269.875	259.9	264			
HKB110C	11	11.625	11.231	11.393	20400	6510	0.36
	279.4	295.275	285.3	289.4			
HKB120C	12	12.625	12.231	12.393	22230	6840	0.39
	304.8	320.675	310.7	314.8			
HKB140C	14	14.625	14.231	14.393	25830	7470	0.476
	355.6	371.475	361.5	365.6			
HKB160C	16	16.625	16.231	16.393	29430	8050	0.544
	406.4	422.275	412.3	416.4			
HKB180C	18	18.625	18.231	18.393	33070	8610	0.612
	457.2	473.075	463.1	467.2			
HKB200C	20	20.625	20.231	20.393	36670	9130	0.68
	508	523.875	513.9	518			

3/16" Steel ball



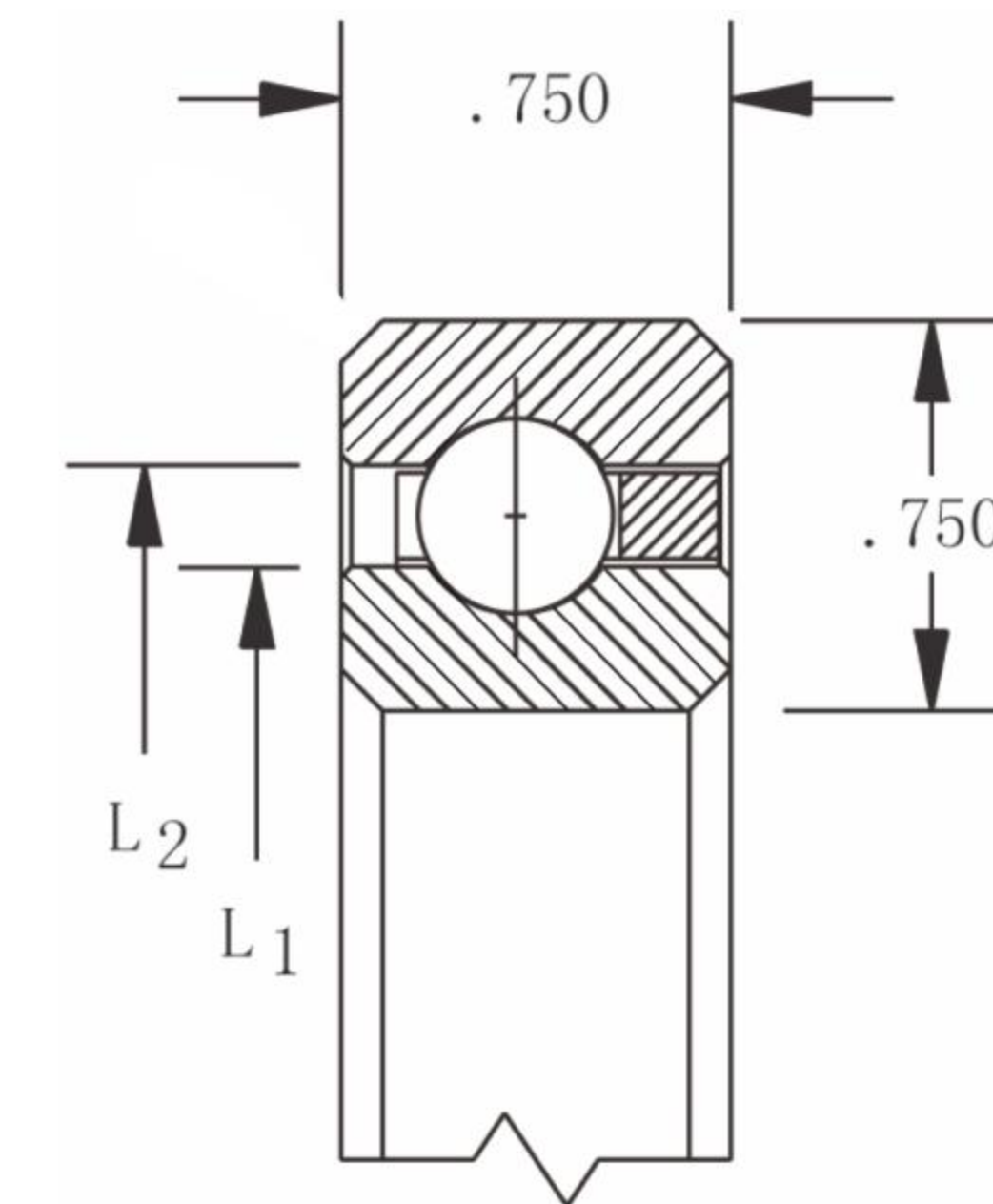
HKC Series							Approx. Wt(kg)
Bearing Number	Dimensions(in./mm)				Capacities(N)		
	d	D	L1	L2	Cor	Cr	
HKC040C	4.00	4.75	4.277	4.473	9330	4770	0.204
	101.60	120.65	108.6	113.6			
HKC042C	4.25	5	4.527	4.723	9780	4920	0.213
	107.95	127	115	120			
HKC045C	4.50	5.25	4.777	4.973	10400	5080	0.225
	114.30	133.35	121.3	126.3			
HKC047C	4.75	5	5.027	5.223	10930	5230	0.235
	120.65	139.7	127.7	132.7			
HKC050C	5.00	5.75	5.277	5.473	11510	5370	0.263
	127.00	146.05	134	139			
HKC055C	5.50	6.25	5.777	5.973	12580	5660	0.268
	139.70	158.75	146.7	151.7			
HKC060C	6.00	6.75	6.277	6.473	13650	5940	0.295
	152.40	171.45	159.4	164.4			
HKC065C	6.50	7.25	6.777	6.973	14710	6210	0.312
	165.10	184.15	172.1	177.1			
HKC070C	7.00	7.75	7.277	7.473	15780	6480	0.34
	177.80	196.85	184.8	189.8			
HKC075C	7.50	8.25	7.777	7.973	16850	6730	0.36
	190.50	209.55	197.5	202.5			
HKC080C	8.00	8.75	8.277	8.473	17910	6980	0.387
	203.20	222.25	210.2	215.2			
HKC090C	9.00	9.75	9.277	9.473	20050	7460	0.45
	228.60	247.65	235.6	240.6			
HKC100C	10.00	10.75	10.277	10.473	22180	7920	0.481
	254.00	273.05	261	266			
HKC110C	11.00	11.75	11.277	11.473	24310	8350	0.526
	279.40	298.45	286.4	291.4			
HKC120C	12.00	12.75	12.277	12.473	26450	8770	0.567
	304.80	323.85	311.8	316.8			
HKC140C	14.00	14.75	14.277	14.473	30720	9570	0.689
	355.60	374.65	362.6	367.6			
HKC160C	16.00	16.75	16.277	16.473	35030	10320	0.785
	406.40	425.45	413.4	418.4			
HKC180C	18.00	18.75	18.277	18.473	39290	11020	0.88
	457.20	476.25	464.2	469.2			
HKC200C	20.00	20.75	20.277	20.473	43560	11670	0.98
	508	527.05	515.0	520.0			

1/4" Steel ball



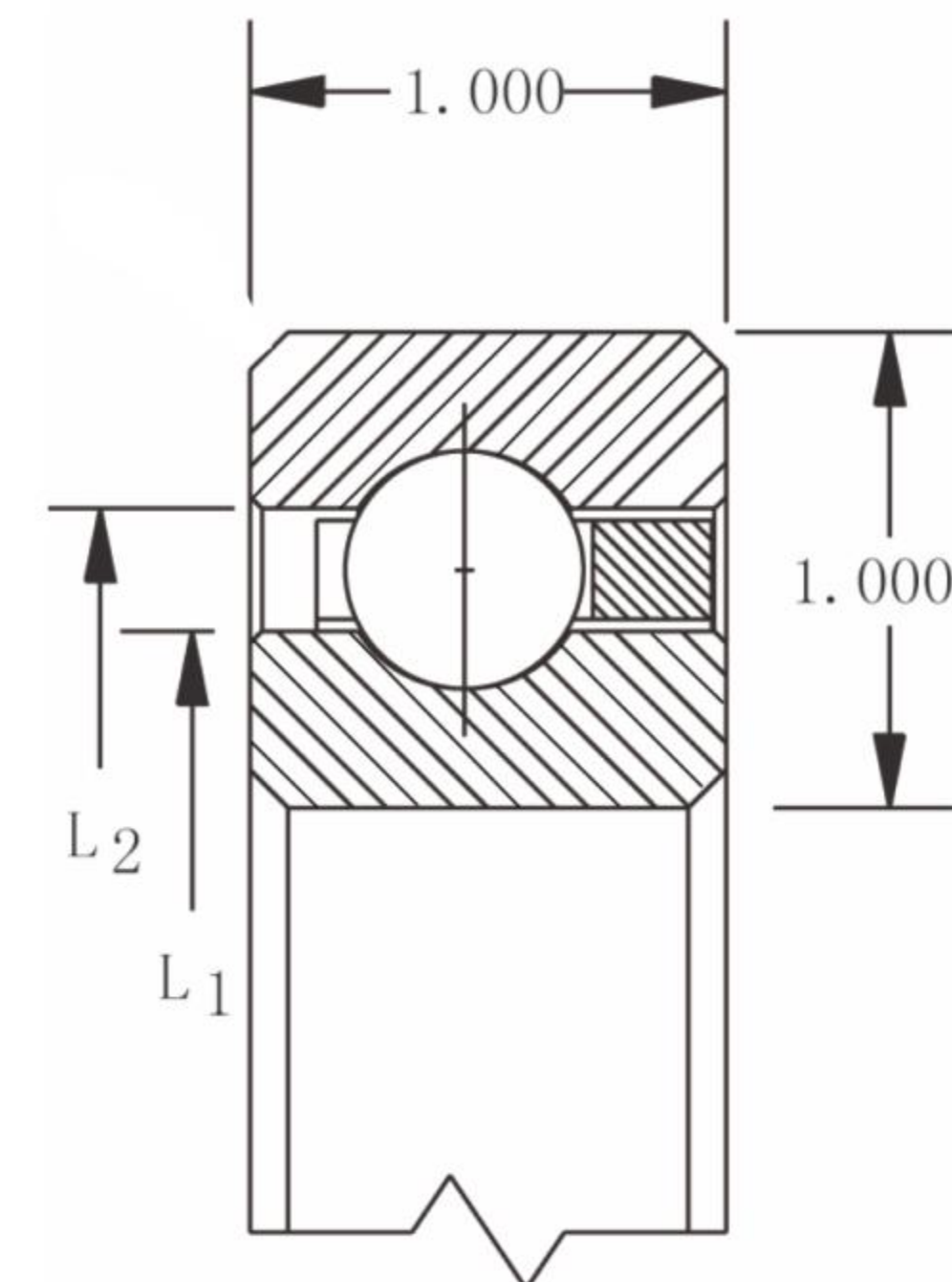
HKD Series							Approx. Wt(kg)
Bearing Number	Dimensions(in./mm)				Capacities(N)		
	d	D	L1	L2	Cor	Cr	
HKD040C	4	5	4.37	4.63	13690	7800	0.366
	101.6	127	111	117.6			
HKD042C	4.25	5.25	4.62	4.88	14180	7940	0.386
	107.95	133.35	117.3	124			
HKD045C	4.5	5.5	4.87	5.13	15200	8270	0.405
	114.3	139.7	123.7	130.3			
HKD047C	4.75	5.75	5.12	5.38	15690	8410	0.426
	120.65	146.05	130	136.7			
HKD050C	5	6	5.37	5.63	16710	8730	0.454
	127	152.4	136.4	143			
HKD055C	5.5	6.5	5.87	6.13	18230	9170	0.485
	139.7	165.1	149.1	155.7			
HKD060C	6	7	6.37	6.63	19780	9600	0.526
	152.4	177.8	161.8	168.4			
HKD065C	6.5	7.5	6.87	7.13	21290	10020	0.566
	165.1	190.5	174.5	181.1			
HKD070C	7	8	7.37	7.63	22800	10420	0.606
	177.8	203.2	187.2	193.8			
HKD075C	7.5	8.5	7.87	8.13	24310	10820	0.65
	190.5	215.9	199.9	206.5			
HKD080C	8	9	8.37	8.63	25830	11200	0.694
	203.2	228.6	212.6	219.2			
HKD090C	9	10	9.37	9.63	28890	11950	0.78
	228.6	254	238	244.6			
HKD100C	10	11	10.37	10.63	31920	12660	0.853
	254	279.4	263.4	270			
HKD110C	11	12	11.37	11.63	34980	13340	0.934
	279.4	304.8	288.8	295.4			
HKD120C	12	13	12.37	12.63	38010	13990	1.02
	304.8	330.2	314.2	320.8			
HKD140C	14	15	14.37	14.63	44090	15230	1.24
	355.6	381	365	371.6			
HKD160C	16	17	16.37	16.63	50180	16390	1.41
	406.4	431.8	415.8	422.4			
HKD180C	18	19	18.37	18.63	56230	17480	1.58
	457.2	482.6	466.6	473.2			
HKD200C	20	21	20.37	20.63	62320	18510	1.75
	508	533.4	517.4	524			

3/8" Steel ball



HKF Series							Approx. Wt(kg)
Bearing Number	Dimensions(in./mm)				Capacities(N)		
	d	D	L1	L2	Cor	Cr	
HKF040C	4	5.5	4.555	4.945	23830	15820	0.875
	101.6	139.7	115.7	125.6			
HKF042C	4.25	5.75	4.805	5.195	25070	16250	0.93
	107.95	146.05	122	132			
HKF045C	4.5	6	5.055	5.445	26360	16670	0.975
	114.3	152.4	128.4	138.3			
HKF047C	4.75	6.25	5.305	5.695	27600	17080	1.04
	120.65	158.75	134.7	144.7			
HKF050C	5	6.5	5.555	5.945	28850	17500	1.09
	127	165.1	141.1	151			
HKF055C	5.5	7	6.055	6.445	31340	18300	1.18
	139.7	177.8	153.8	163.7			
HKF060C	6	7.5	6.555	6.945	33870	19070	1.24
	152.4	190.5	166.5	176.4			
HKF065C	6.5	8	7.055	7.445	36360	19830	1.35
	165.1	203.2	179.2	189.1			
HKF070C	7	8.5	7.555	7.945	38890	20570	1.45
	177.8	215.9	191.9	201.8			
HKF075C	7.5	9	8.055	8.445	41380	21300	1.56
	190.5	228.6	204.6	214.5			
HKF080C	8	9.5	8.555	8.945	43920	22000	1.66
	203.2	241.3	217.3	227.2			
HKF090C	9	10.5	9.555	9.945	48900	23360	1.81
	228.6	266.7	242.7	252.6			
HKF100C	10	11.5	10.555	10.945	53920	24670	2.02
	254	292.1	268.1	278			
HKF110C	11	12.5	11.555	11.945	58940	25930	2.18
	279.4	317.5	293.5	303.4			
HKF120C	12	13.5	12.555	12.945	63960	27140	2.38
	304.8	342.9	318.9	328.8			
HKF140C	14	15.5	14.555	14.945	74010	29430	2.72
	355.6	393.7	369.7	379.6			
HKF160C	16	17.5	16.555	16.945	84010	31580	3.22
	406.4	444.5	420.5	430.4			
HKF180C	18	19.5	18.555	18.945	94060	33590	3.58
	457.2	495.3	471.3	481.2			
HKF200C	20	21.5	20.555	20.945	104100	35500	4.04
	508	546.1	522.1	532			

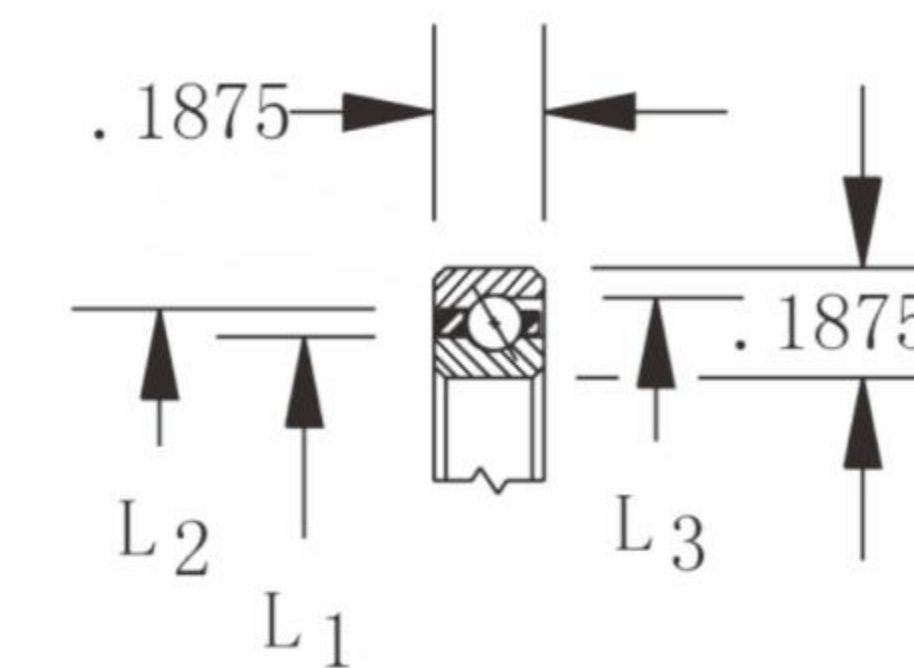
1/2" Steel ball



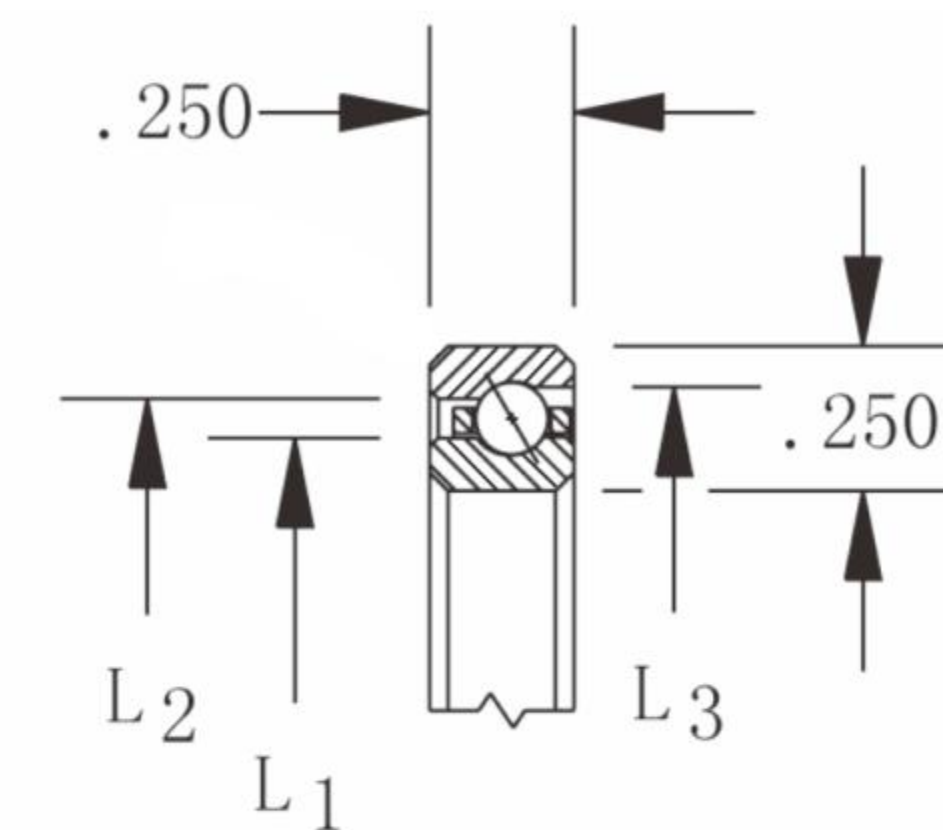
HKG Series							Approx. Wt(kg)
Bearing Number	Dimensions(in./mm)				Capacities(N)		
	d	D	L1	L2	Cor	Cr	
HKG040C	4	6	4.742	5.258	36490	26940	1.65
	101.6	152.4	120.4	133.6			
HKG042C	4.25	6.25	4.992	5.508	36490	27180	1.75
	107.95	158.75	126.8	139.9			
HKG045C	4.5	6.5	5.242	5.758	38940	27900	1.81
	114.3	165.1	133.1	146.3			
HKG047C	4.75	6.75	5.492	6.008	41340	28840	1.91
	120.65	171.45	139.5	152.6			
HKG050C	5	7	5.742	6.258	43780	29740	2.02
	127	177.8	145.8	159			
HKG055C	5.5	7.5	6.242	6.758	46230	30450	2.17
	139.7	190.5	158.5	171.7			
HKG060C	6	8	6.742	7.258	51070	32190	2.31
	152.4	203.2	171.2	184.4			
HKG065C	6.5	8.5	7.242	7.758	53520	32860	2.47
	165.1	215.9	183.9	197.1			
HKG070C	7	9	7.742	8.258	58360	34510	2.67
	177.8	228.6	196.6	209.8			
HKG075C	7.5	9.5	8.242	8.758	60810	35170	2.83
	190.5	241.3	209.3	222.5			
HKG080C	8	10	8.742	9.258	65650	36740	3
	203.2	254	222	235.2			
HKG090C	9	11	9.742	10.258	72990	38860	3.3
	228.6	279.4	247.4	260.6			
HKG100C	10	12	10.742	11.258	80280	40910	3.65
	254	304.8	272.8	286			
HKG110C	11	13	11.742	12.258	87570	42870	3.96
	279.4	330.2	298.2	311.4			
HKG120C	12	14	12.742	13.258	94860	44780	4.32
	304.8	355.6	323.6	336.8			
HKG140C	14	16	14.742	15.258	109440	48390	4.96
	355.6	406.4	374.4	387.6			
HKG160C	16	18	16.742	17.258	124060	51770	5.65
	406.4	457.2	425.2	438.4			
HKG180C	18	20	18.742	19.258	138640	54970	6.28
	457.2	508	476	489.2			
HKG200C	20	22	20.742	21.258	153220	57980	7.53
	508	558.8	526.8	540			

Open Series:
Angular Contact (Type A)

3/32" Steel ball



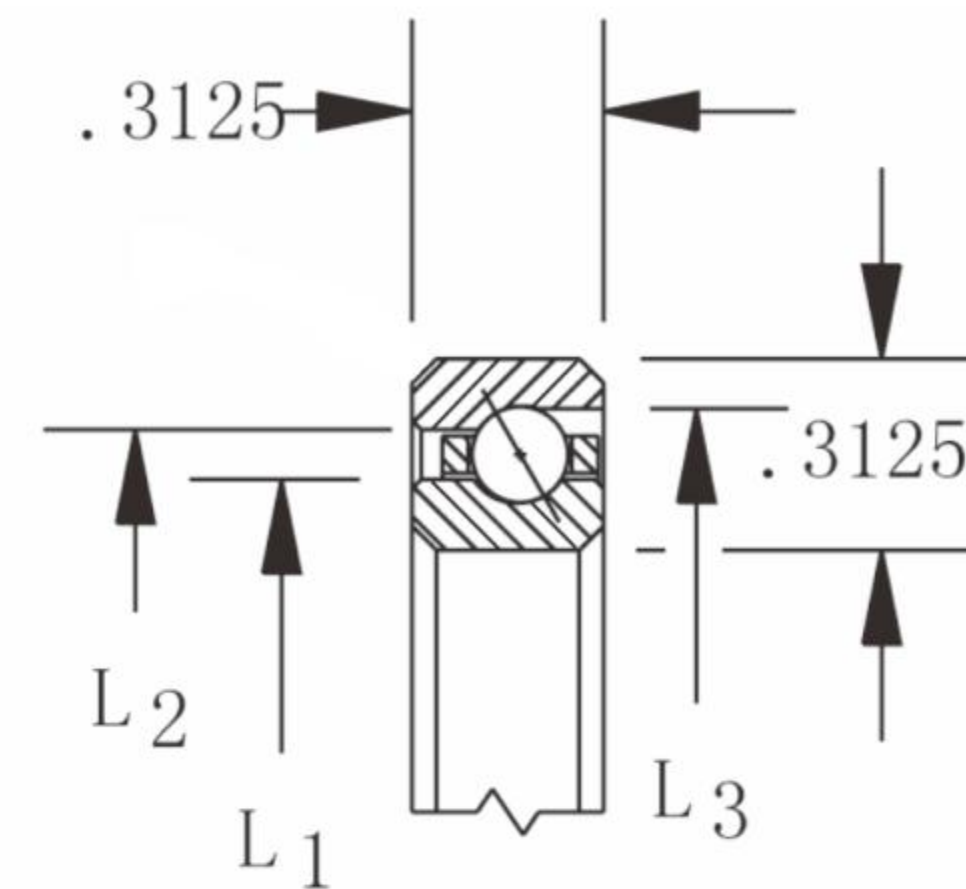
1/8" Steel ball



HKAA Series										Approx. Wt(kg)
Bearing Number	Dimensions(in./mm)					Capacities(N)				
						Radial		Axial		
	d	D	L1	L2	L3	Cor	Cr	Coa	Ca	
	HKAA010A	1.000	1.375	1.142	1.236	1.274	1510	860	4310	
25.4		34.925	29.0	31.4	32.4					
HKAA015A	1.5	1.875	1.642	1.736	1.774	2130	1060	6130	2490	
	38.1	47.625	41.7	44.1	45.1					

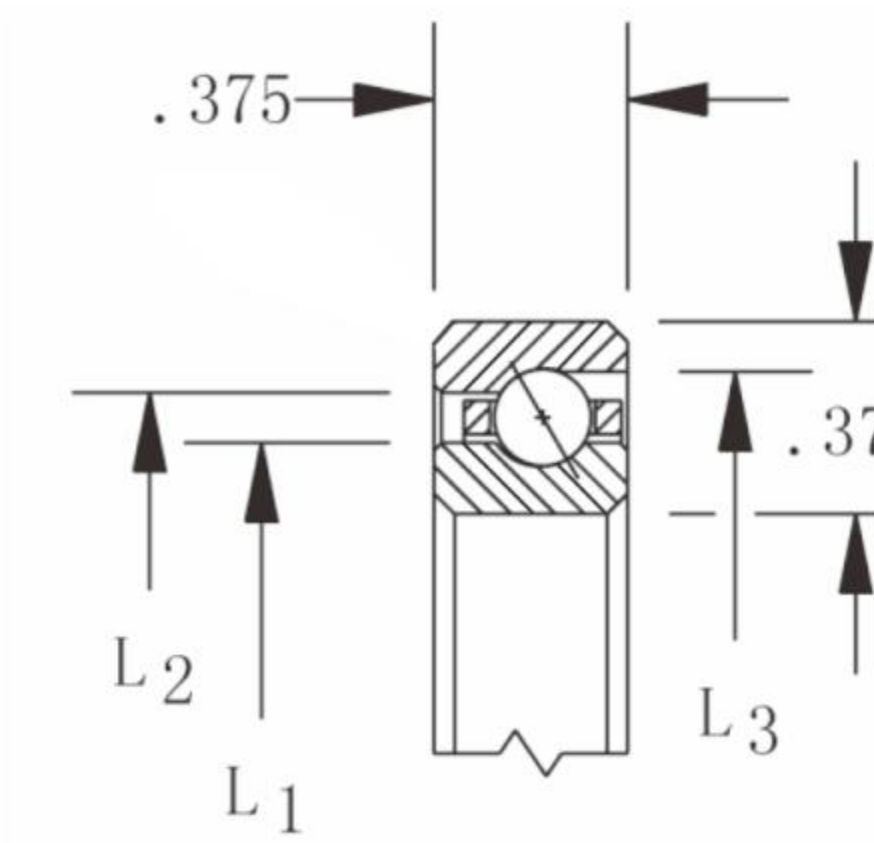
HKA Series										Approx. Wt(kg)
Bearing Number	Dimensions(in./mm)					Capacities(N)				
						Radial		Axial		
	d	D	L1	L2	L3	Cor	Cr	Coa	Ca	
HKA020A	2	2.5	2.186	2.314	2.369	3510	1800	10140	4270	0.045
	50.8	63.5	55.5	58.8	60.2					
HKA025A	2.5	3	2.686	2.814	2.869	4270	2040	12360	4890	0.054
	63.5	76.2	68.2	71.5	72.9					
HKA030A	3	3.5	3.186	3.314	3.367	5070	2250	14620	5470	0.064
	76.2	88.9	80.9	84.2	85.6					
HKA035A	3.5	4	3.686	3.814	3.867	5830	2450	16850	6000	0.077
	88.9	101.6	93.6	96.9	98.2					
HKA040A	4	4.5	4.186	4.314	4.367	6630	2640	19110	6530	0.086
	101.6	114.3	106.3	109.6	110.9					
HKA042A	4.25	4.75	4.436	4.564	4.615	7020	2740	20230	6800	0.091
	107.95	120.65	112.7	115.9	117.2					
HKA045A	4.5	5	4.686	4.814	4.865	7380	2830	21380	7020	0.095
	114.3	127	119	122.3	123.6					
HKA047A	4.75	5.250	4.936	5.064	5.115	7780	2920	22490	7290	0.1
	120.65	133.35	125.4	128.6	129.9					
HKA050A	5	5.500	5.186	5.314	5.365	8180	3000	23600	7510	0.104
	127	139.7	131.7	135.0	136.3					
HKA055A	5.500	6.000	5.686	5.814	5.863	8980	3180	25870	8000	0.113
	139.7	152.4	144.4	147.7	148.9					
HKA060A	6.000	6.500	6.186	6.314	6.363	9740	3340	28090	8450	0.127
	152.4	165.1	157.1	160.4	161.6					
HKA065A	6.500	7.000	6.686	6.814	6.861	10540	3500	30360	8890	0.136
	165.1	177.8	169.8	173.1	172.3					
HKA070A	7.000	7.500	7.186	7.314	7.361	11290	3660	32630	9340	0.145
	177.8	190.5	182.5	185.8	187					
HKA075A	7.500	8.000	7.686	7.814	7.861	12090	3810	34850	9740	0.154
	190.5	203.2	195.2	198.5	199.7					
HKA080A	8.000	8.500	8.186	8.314	8.359	12850	3960	37120	10140	0.163
	203.2	215.9	207.9	211.2	212.3					
HKA090A	9.000	9.500	9.186	9.314	9.357	14400	4240	41610	10980	0.186
	228.6	241.3	233.3	236.6	237.7					
HKA100A	10.000	10.500	10.186	10.314	10.355	15960	4510	46100	11740	0.204
	254	266.7	258.7	262.0	263					
HKA110A	11.000	11.500	11.186	11.314	11.353	17510	4770	50580	12490	0.227
	279.4	292.1	284.1	287.4	288.4					
HKA120A	12.000	12.500	12.186	12.314	12.349	19070	5010	55070	13200	0.245
	304.8	317.5	309.5	312.8	313.7					

5/32" Steel ball



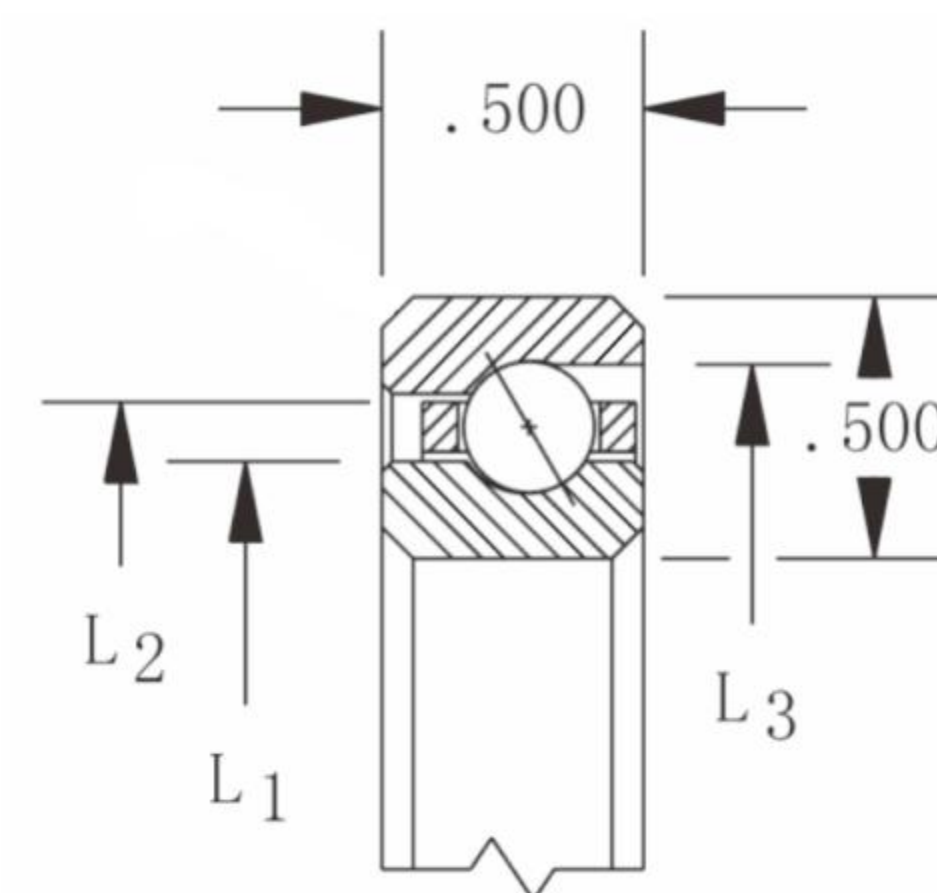
HKB Series										Approx. Wt(kg)
Bearing Number	Dimensions(in./mm)					Capacities(N)				
	d	D	L1	L2	L3	Cor	Cr	Coa	Ca	
HKB020A	2	2.625	2.231	2.393	2.464	4850	2670	14000	6130	0.068
	50.8	66.675	56.7	60.8	62.6					
HKB025A	2.5	3.125	2.731	2.893	2.964	5960	3000	17160	7070	0.086
	63.5	79.375	69.4	73.5	75.3					
HKB030A	3	3.625	3.231	3.393	3.462	6890	3260	19870	7780	0.1
	76.2	92.075	82.1	86.2	87.9					
HKB035A	3.5	4.125	3.731	3.893	3.962	7960	3560	23030	8580	0.122
	88.9	104.775	94.8	98.9	100.6					
HKB040A	4	4.625	4.432	4.393	4.46	9070	3850	26180	9340	0.136
	101.6	117.475	107.5	111.6	113.3					
HKB042A	4.25	4.875	4.481	4.643	4.71	9560	3960	27560	9650	0.141
	107.95	123.825	113.8	117.9	119.6					
HKB045A	4.5	5.125	4.731	4.893	4.96	10000	4080	28890	9960	0.154
	114.3	130.175	120.2	124.3	126					
HKB047A	4.75	5.375	4.981	5.143	5.21	10620	4230	30720	10400	0.159
	120.65	136.525	126.6	130.6	132.3					
HKB050A	5	5.625	5.231	5.393	5.46	11110	4340	32050	10710	0.168
	127	142.875	132.9	137	138.7					
HKB055A	5.5	6.125	5.731	5.893	5.958	12180	4590	35200	11380	0.181
	139.7	155.575	145.6	149.7	151.3					
HKB060A	6	6.625	6.231	6.393	6.458	13290	4840	38360	12050	0.2
	152.4	168.275	158.3	162.4	164					
HKB065A	6.5	7.125	6.731	6.893	6.958	14220	5030	41070	12620	0.213
	165.1	180.975	171	175.1	176.7					
HKB070A	7	7.625	7.231	7.393	7.456	15340	5260	44270	13250	0.227
	177.8	193.675	183.7	187.8	189.4					
HKB075A	7.5	8.125	7.731	7.893	7.955	16450	5490	47430	13870	0.245
	190.5	206.375	196.4	200.5	202.1					
HKB080A	8	8.625	8.231	8.393	8.453	17510	5710	50580	14490	0.259
	203.2	219.075	209.1	213.2	214.7					
HKB090A	9	9.625	9.231	9.393	9.451	19560	6090	56450	15600	0.29
	228.6	244.475	234.5	238.6	240					
HKB100A	10	10.625	10.231	10.393	10.449	21740	6490	62760	16710	0.322
	254	269.875	259.9	264	265.4					
HKB110A	11	11.625	11.231	11.393	11.447	23780	6850	68630	17780	0.354
	279.4	295.275	285.3	289.4	290.8					
HKB120A	12	12.625	12.231	12.393	12.445	25960	7210	74940	18850	0.386
	304.8	320.675	310.7	314.8	316.1					
HKB140A	14	14.625	14.231	14.393	14.439	30050	7850	86680	20760	0.445
	355.6	371.475	361.5	365.6	366.8					
HKB160A	16	16.625	16.231	16.393	16.433	34270	8480	98900	22670	0.509
	406.4	422.275	412.3	416.4	417.4					
HKB180A	18	18.625	18.231	18.393	18.425	38490	9060	111080	24490	0.572
	457.2	473.075	463.1	467.2	468					
HKB200A	20	20.625	20.231	20.393	20.416	42720	9610	123260	26230	0.635
	508	523.875	513.9	518	518.6					

3/16" Steel ball



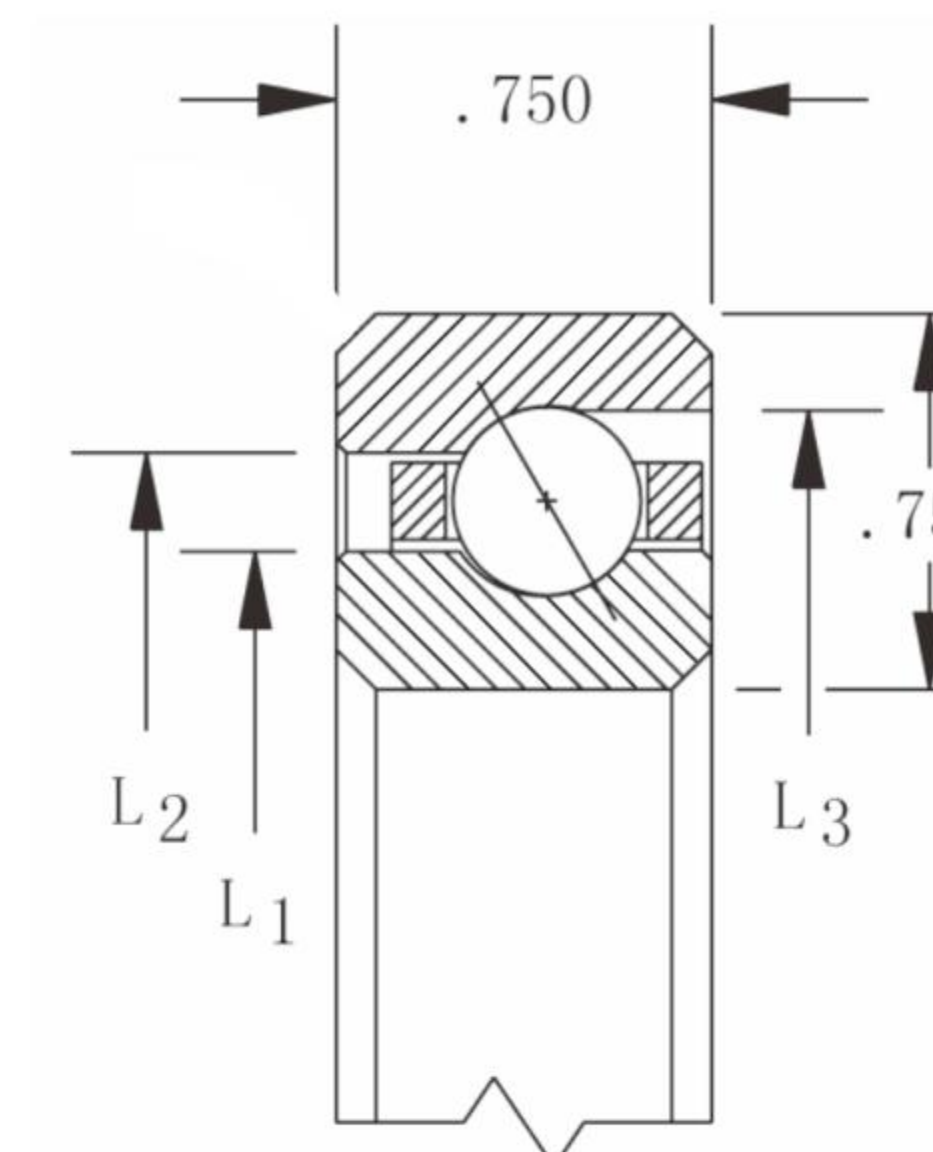
HKC Series										Approx. Wt(kg)
Bearing Number	Dimensions(in./mm)					Capacities(N)				
	d	D	L1	L2	L3	Cor	Cr	Coa	Ca	
HKC040A	4	4.75	4.277	4.473	4.554	11340	5130	32720	12310	0.2
	101.6	120.65	108.6	113.6	115.7					
HKC042A	4.25	5	4.527	4.723	4.804	12050	5310	34760	12800	0.209
	107.9	127	115	120	122					
HKC045A	4.5	5.25	4.777	4.973	5.052	12710	5490	36760	13290	0.222
	114.3	133.35	121.3	126.3	128.3					
HKC047A	4.75	5	5.027	5.223	5.302	13420	5660	38760	13780	0.231
	120.65	139.7	127.7	132.7	134.7					
HKC050A	5	5.75	5.277	5.473	5.552	14140	5840	40760	14220	0.245
	127	146.05	134	139	141					
HKC055A	5.5	6.25	5.777	5.973	6.052	15290	6110	44090	14980	0.263
	139.7	158.75	146.7	151.7	153.7					
HKC060A	6	6.75	6.277	6.473	6.55	16670	6440	48100	15910	0.29
	152.4	171.45	159.4	164.4	166.4					
HKC065A	6.5	7.25	6.777	6.973	7.05	18050	6750	52100	16760	0.308
	165.1	184.15	172.1	177.1	179					
HKC070A	7	7.75	7.277	7.473	7.55	19200	7000	55430	17490	0.336
	177.8	196.85	184.8	189.8	191.8					
HKC075A	7.5	8.25	7.777	7.973	8.048	20580	7300	59470	18310	0.354
	190.5	209.55	197.5	202.5	204.4					
HKC080A	8	8.75	8.277	8.473	8.548	22010	7590	63480	19110	0.381
	203.2	222.3	210.2	215.2	217.1					
HKC090A	9	9.75	9.277	9.473	9.546	24540	8100	70810	20580	0.445
	228.6	247.65	235.6	240.6	242.5					
HKC100A	10	10.75	10.277	10.473	10.544	27290	8630	78810	22090	0.472
	254	273.05	261	266	267.8					
HKC110A	11	11.75	11.277	11.473	11.542	29870	9100	86190	23470	0.517
	279.4	298.45	286.4	291.4	293.2					
HKC120A	12	12.75	12.277	12.473	12.54	32400	9540	93520	24800	0.558
	304.8	323.85	311.8	316.8	318.5					
HKC140A	14	14.75	14.277	14.473	14.535	37740	10430	108900	27430	0.649
	355.6	374.65	362.6	367.6	369.2					
HKC160A	16	16.75	16.277	16.473	16.529	43030	11260	124240	29920	0.739
	406.4	425.45	413.4	418.4	419.8					
HKC180A	18	18.75	18.277	18.473	18.523	48360	12030	139620	32360	0.83
	457.2	476.25	464.2	469.2	470.5					
HKC200A	20	20.75	20.277	20.473	20.517	53470	12730	154330	34580	0.921
	508	527.05	515	520	521.1					

1/4" Steel ball



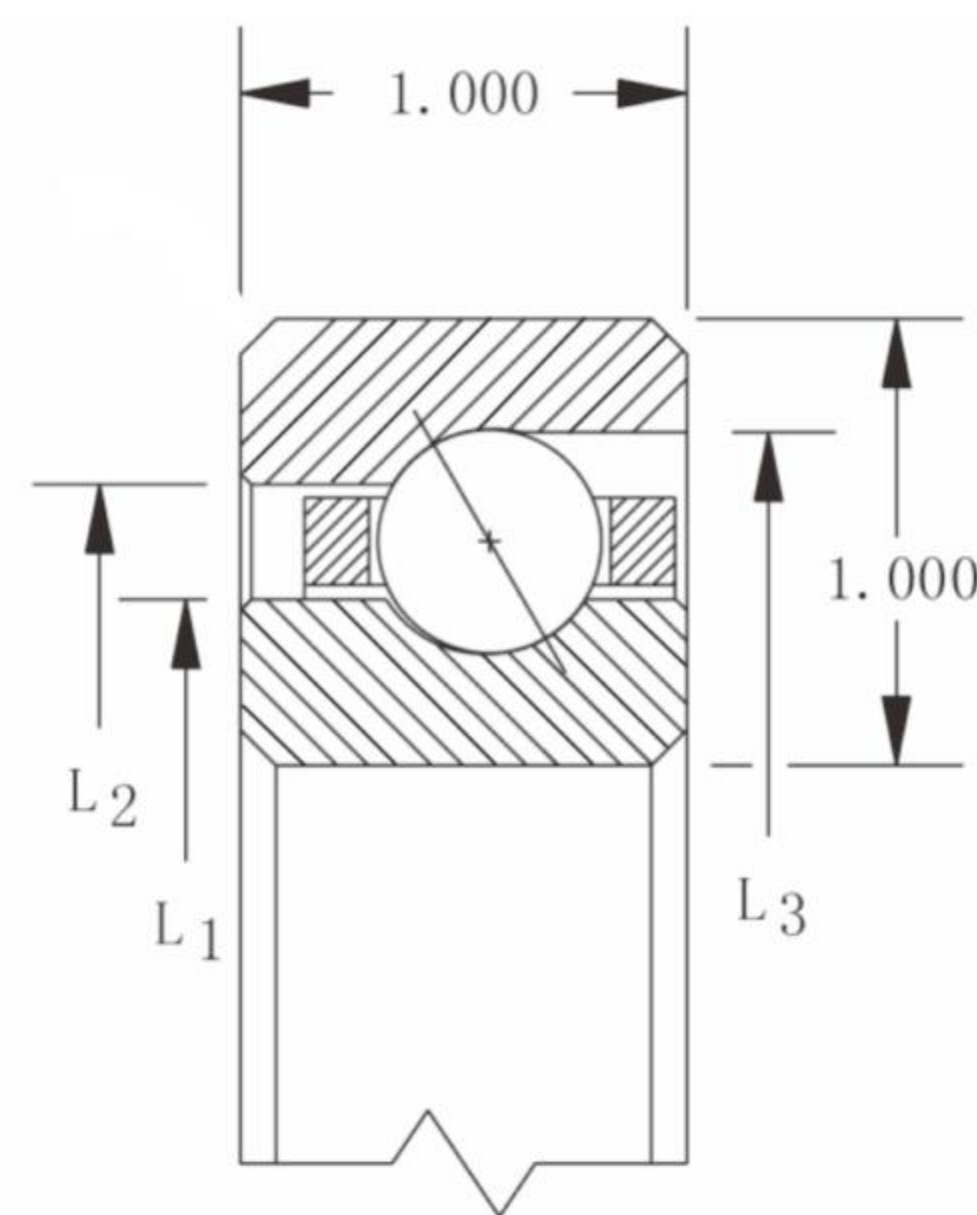
HKD Series										Approx. Wt(kg)
Bearing Number	Dimensions(in./mm)					Capacities(N)				
	d	D	L1	L2	L3	Cor	Cr	Coa	Ca	
HKD040A	4	5	4.37	4.63	4.741	15780	8090	45610	18940	0.363
	101.6	127	111	117.6	120.4					
HKD042A	4.25	5.25	4.62	4.88	4.991	16670	8340	48140	19650	0.381
	107.95	133.35	117.3	124	126.8					
HKD045A	4.5	5.5	4.87	5.13	5.241	17560	8580	50670	20310	0.4
	114.3	139.7	123.7	130.3	133.1					
HKD047A	4.75	5.75	5.12	5.38	5.49	18450	8830	53210	20980	0.422
	120.65	146.05	130	136.7	139.4					
HKD050A	5	6	5.37	5.63	5.74	19290	9070	55740	21650	0.445
	127	152.4	136.4	143	145.8					
HKD055A	5.5	6.5	5.87	6.13	6.238	21070	9530	60810	22940	0.481
	139.7	165.1	149.1	155.7	158.4					
HKD060A	6	7	6.37	6.63	6.738	22800	9990	65880	24180	0.522
	152.4	177.8	161.8	168.4	171.1					
HKD065A	6.5	7.5	6.87	7.13	7.236	24580	10430	70940	25430	0.562
	165.1	190.5	174.5	181.1	183.8					
HKD070A	7	8	7.37	7.63	7.736	26310	10860	76010	26630	0.603
	177.8	203.2	187.2	193.8	196.5					
HKD075A	7.5	8.5	7.87	8.13	8.236	28090	11270	81080	27780	0.644
	190.5	215.9	199.9	206.5	209.2					
HKD080A	8	9	8.37	8.63	8.734	29830	11680	86140	28940	0.689
	203.2	228.6	212.6	219.2	221.8					
HKD090A	9	10	9.37	9.63	9.732	33340	12460	96280	31160	0.767
	228.6	254	238	244.6	247.2					
HKD100A	10	11	10.37	10.63	10.732	36850	13210	106410	33340	0.848
	254	279.4	263.4	270	272.6					
HKD110A	11	12	11.37	11.63	11.73	40360	13930	116550	35380	0.93
	279.4	304.8	288.8	295.4	298					
HKD120A	12	13	12.37	12.63	12.728	43870	14620	126680	37430	1.01
	304.8	330.2	314.2	320.8	323.3					
HKD140A	14	15	14.37	14.63	14.724	50900	15920	146950	41290	1.17
	355.6	381	365	371.6	374					
HKD160A	16	17	16.37	16.63	16.718	57920	17140	167220	45030	1.33
	406.4	431.8	415.8	422.4	424.6					
HKD180A	18	19	18.37	18.63	18.712	64940	18280	187490	48580	1.49
	457.2	482.6	466.6	473.2	475.3					
HKD200A	20	21	20.37	20.63	20.705	71970	19360	207760	52050	1.66
	508	533.4	517.4	524	525.9					

3/8" Steel ball



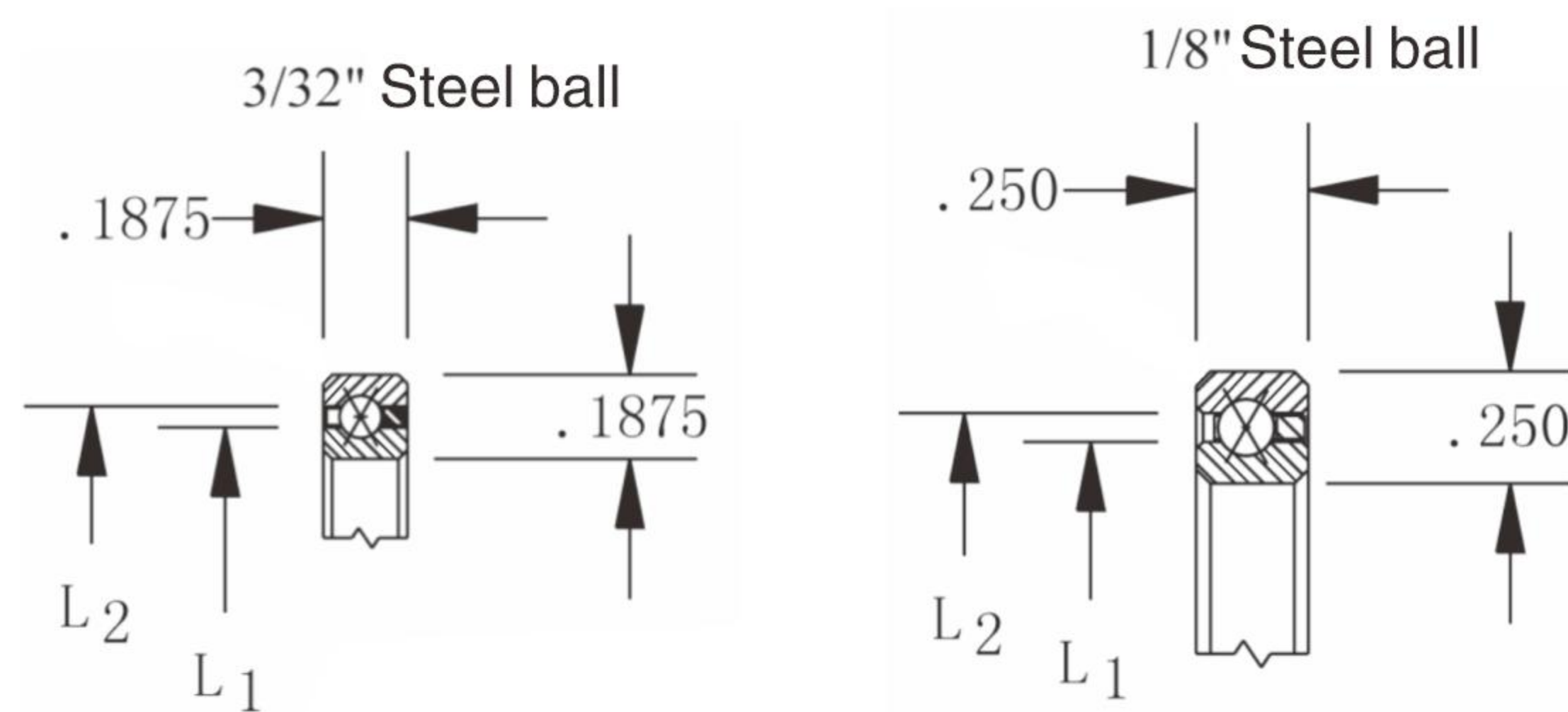
HKF Series										Approx. Wt(kg)
Bearing Number	Dimensions(in./mm)					Capacities(N)				
	d	D	L1	L2	L3	Cor	Cr	Coa	Ca	
HKF040A	4	5.5	4.555	4.945	5.115	28230	16610	81520	37430	0.875
	101.6	139.7	115.7	125.6	129.9					
HKF042A	4.25	5.75	4.805	5.195	5.365	29340	16910	84680	38360	0.93
	107.95	146.05	122	132	136.3					
HKF045A	4.5	6	5.055	5.445	5.615	31520	17630	90950	40230	0.975
	114.3	152.4	128.4	138.3	142.6					
HKF047A	4.75	6.25	5.305	5.695	5.865	32580	17930	94060	41160	1.04
	120.65	158.75	134.7	144.7	149					
HKF050A	5	6.5	5.555	5.945	6.115	33650	18230	97210	42050	1.09
	127	165.1	141.1	151	155.3					
HKF055A	5.5	7	6.055	6.445	6.613	36940	19200	106590	44720	1.18
	139.7	177.8	153.8	163.7	168					
HKF060A	6	7.5	6.555	6.945	7.113	40180	20140	116020	47340	1.24
	152.4	190.5	166.5	176.4	180.7					
HKF065A	6.5	8	7.055	7.445	7.613	43430	21040	125440	49870	1.35
	165.1	203.2	179.2	189.1	193.4					
HKF070A	7	8.5	7.555	7.945	8.113	46720	21920	134820	52320	1.45
	177.8	215.9	191.9	201.8	206.1					
HKF075A	7.5	9	8.055	8.445	8.61	48900	22460	141080	53920	1.56
	190.5	228.6	204.6	214.5	218.7					
HKF080A	8	9.5	8.555	8.945	9.11	52140	23300	150510	56320	1.66
	203.2	241.3	217.3	227.2	231.4					
HKF090A	9	10.5	9.555	9.945	10.108	58630	24930	169310	60900	1.81
	228.6	266.7	242.7	252.6	256.7					
HKF100A	10	11.5	10.555	10.945	11.106	64100	26180	185000	64590	2.02
	254	292.1	268.1	278	282.1					
HKF110A	11	12.5	11.555	11.945	12.106	70590	27680	203800	68900	2.18
	279.4	317.5	293.5	303.4	307.5					
HKF120A	12	13.5	12.555	12.945	13.104	76010	28840	219490	72410	2.38
	304.8	342.9	318.9	328.8	332.8					
HKF140A	14	15.5	14.555	14.945	15.102	87970	31310	253990	79790	2.72
	355.6	393.7	369.7	379.6	383.6					
HKF160A	16	17.5	16.555	16.945	17.098	99920	33620	288440	86860	3.22
	406.4	444.5	420.5	430.4	434.3					
HKF180A	18	19.5	18.555	18.945	19.096	112950	36020	326090	94280	3.58
	457.2	495.3	471.3	481.2	485					
HKF200A	20	21.5	20.555	20.945	21.092	124910	38060	360580	100810	4.04
	508	546.1	522.1	532	535.7					

1/2" Steel ball



HKG Series										Approx. Wt(kg)
Bearing Number	Dimensions(in./mm)					Capacities(N)				
	d	D	L1	L2	L3	Cor	Cr	Coa	Ca	
HKG040A	4	6	4.742	5.258	5.491	42140	27920	121620	60590	1.64
	101.6	152.4	120.4	133.6	139.5					
HKG042A	4.25	6.25	4.992	5.508	5.741	44230	28620	227710	62630	1.74
	107.95	158.75	126.8	139.9	145.8					
HKG045A	4.5	6.5	5.242	5.758	5.989	46360	29170	133800	64590	1.79
	114.3	165.1	133.1	146.3	152.1					
HKG047A	4.75	6.75	5.492	6.008	6.239	48450	29980	139840	66540	1.89
	120.65	171.45	139.5	152.6	158.5					
HKG050A	5	7	5.742	6.258	6.489	50540	30660	145930	68450	2
	127	177.8	145.8	159	164.8					
HKG055A	5.5	7.5	6.242	6.758	6.989	54760	31970	158110	72190	2.15
	139.7	190.5	158.5	171.7	177.5					
HKG060A	6	8	6.742	7.258	7.489	58990	33250	170240	75830	2.3
	152.4	203.2	171.2	184.4	190.2					
HKG065A	6.5	8.5	7.242	7.758	7.987	63210	34500	182420	79430	2.45
	165.1	215.9	183.9	197.1	202.9					
HKG070A	7	9	7.742	8.258	8.487	67390	35720	194600	829000	2.66
	177.8	228.6	196.6	209.8	215.6					
HKG075A	7.5	9.5	8.242	8.758	8.987	71610	36910	206740	86320	2.81
	190.5	241.3	209.3	222.5	228.3					
HKG080A	8	10	8.742	9.258	9.485	75830	38080	218920	89700	2.97
	203.2	254	222	235.2	240.9					
HKG090A	9	11	9.742	10.258	10.485	84280	40330	243230	96190	3.27
	228.6	279.4	247.4	260.6	266.3					
HKG100A	10	12	10.742	11.258	11.483	92680	42500	367550	102500	3.63
	254	304.8	272.8	286	291.7					
HKG110A	11	13	11.742	12.258	12.481	101120	44570	291860	108640	3.94
	279.4	330.2	298.2	311.4	317					
HKG120A	12	14	12.742	13.258	13.481	109530	46590	316220	114590	4.3
	304.8	355.6	323.6	336.8	342.4					
HKG140A	14	16	14.742	15.258	15.478	126370	50400	364850	126060	4.94
	355.6	406.4	374.4	387.6	393.1					
HKG160A	16	18	16.742	17.258	17.474	143220	53970	413470	137040	5.62
	406.4	457.2	425.2	438.4	443.8					
HKG180A	18	20	18.742	19.258	19.472	160110	57330	462280	147570	6.26
	457.2	508	476	489.2	494.6					
HKG200A	20	22	20.742	21.258	21.468	176960	60510	510730	157750	6.89
	508	558.8	526.8	540	545.3					

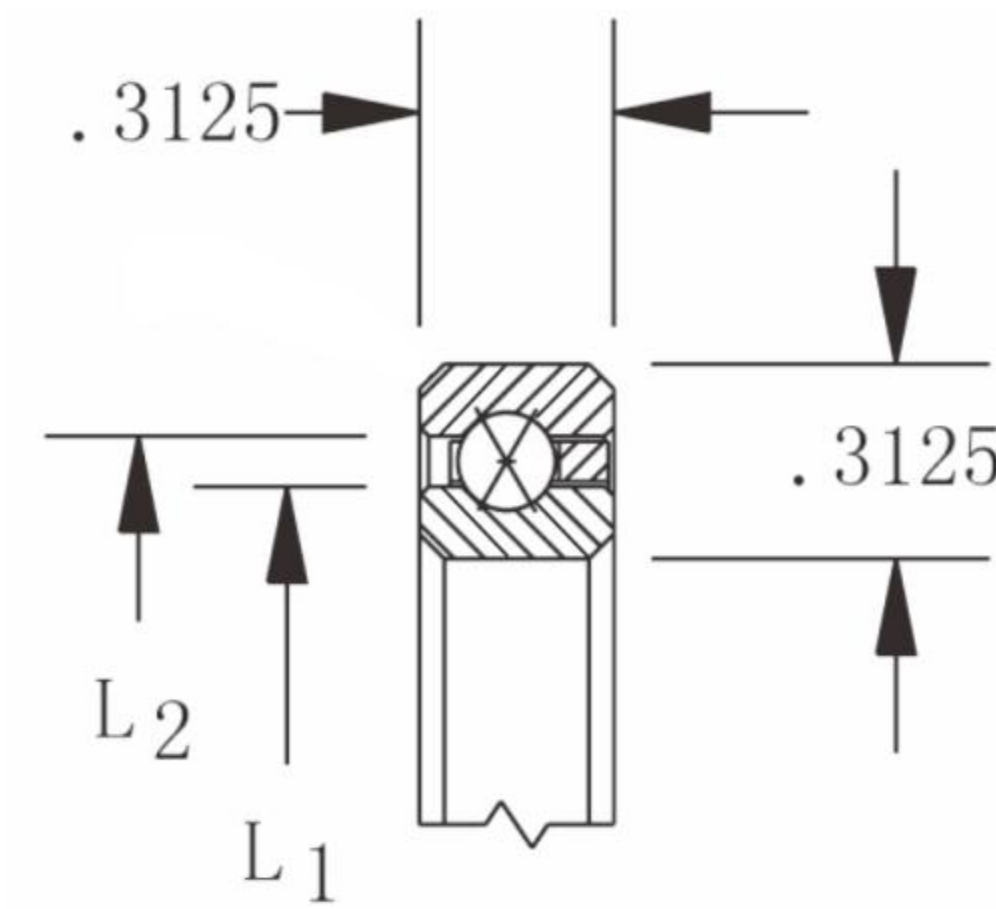
Open Series:
Four–Point Contact (Type X)



HKAA Series									Approx. Wt(kg)
Bearing Number	Dimensions(in./mm)				Capacities(N)				
					Radial		Axial		
	d	D	L1	L2	Cor	Cr	Coa	Ca	
HKAA010X	1.000	1.375	1.142	1.236	1290	1100	3250	1650	
	25.4	34.925	29.0	31.4					
HKAA015X	1.500	1.875	1.642	1.736	1780	1320	4450	2050	
	38.1	47.625	41.7	44.1					

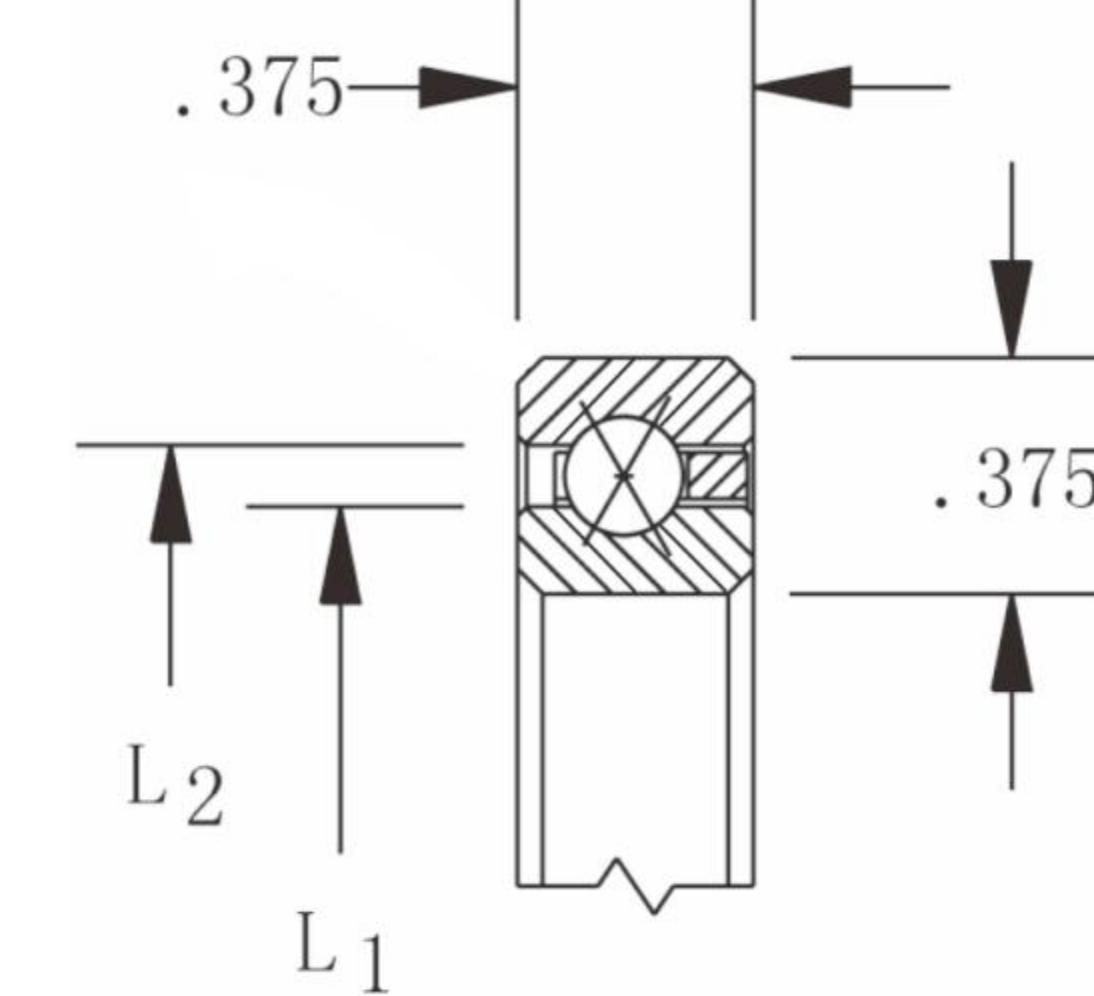
HKA Series									Approx. Wt(kg)
Bearing Number	Dimensions(in./mm)				Capacities(N)				
					Radial		Axial		
	d	D	L1	L2	Cor	Cr	Coa	Ca	
HKA020X	2	2.5	2.186	2.314	1650	2280	7600	3510	0.048
	50.8	63.5	55.5	58.8					
HKA025X	2.5	3	2.686	2.814	690	2590	9290	4050	0.059
	63.5	76.2	68.2	71.5					
HKA030X	3	3.5	3.186	3.314	4400	2860	10980	4490	0.068
	76.2	88.9	80.9	84.2					
HKA035X	3.5	4	3.686	3.814	5070	3120	12670	4930	0.082
	88.9	101.6	93.6	96.9					
HKA040X	4	4.5	4.186	4.314	5730	3360	14310	5380	0.09
	101.6	114.3	106.3	109.6					
HKA042X	4.25	4.75	4.436	4.564	6090	3480	15160	5600	0.095
	107.95	120.65	112.7	115.9					
HKA045X	4.5	5	4.686	4.814	6400	3600	16000	5820	0.1
	114.3	127	119	122.3					
HKA047X	4.75	5.250	4.936	5.064	6760	3710	16850	6000	0.104
	120.65	133.35	125.4	128.6					
HKA050X	5	5.500	5.186	5.314	7070	3820	17690	6220	0.109
	127	139.7	131.7	135.0					
HKA055X	5.500	6.000	5.686	5.814	7780	4040	19380	6580	0.118
	139.7	152.4	144.4	147.7					
HKA060X	6.000	6.500	6.186	6.314	8450	4250	21070	6980	0.130
	152.4	165.1	157.1	160.4					
HKA065X	6.500	7.000	6.686	6.814	9110	4450	22760	7330	0.140
	165.1	177.8	169.8	173.1					
HKA070X	7.000	7.500	7.186	7.314	9780	4650	24450	7690	0.150
	177.8	190.5	182.5	185.8					
HKA075X	7.500	8.000	7.686	7.814	10450	4840	26140	8050	0.160
	190.5	203.2	195.2	198.5					
HKA080X	8.000	8.500	8.186	8.314	11110	5030	27830	8400	0.172
	203.2	215.9	207.9	211.2					
HKA090X	9.000	9.500	9.186	9.314	12490	5390	31200	9070	0.200
	228.6	241.3	233.3	236.6					
HKA100X	10.000	10.500	10.186	10.314	13820	5730	34580	9690	0.227
	254	266.7	258.7	262.0					
HKA110X	11.000	11.500	11.186	11.314	15160	6050	37960	10310	0.236
	279.4	292.1	284.1	287.4					
HKA120X	12.000	12.500	12.186	12.314	16540	6370	41340	10890	0.254
	304.8	317.5	309.5	312.8					

5/32" Steel ball



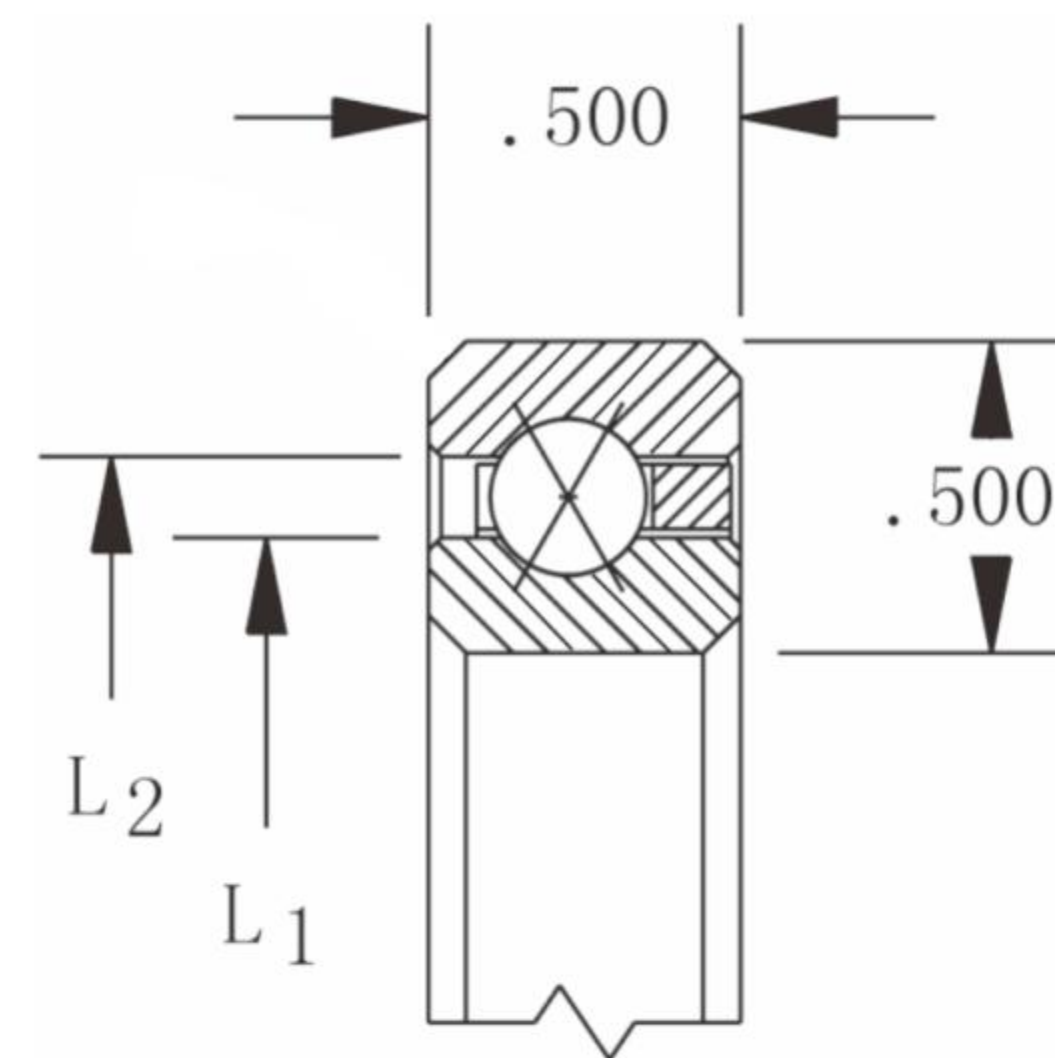
HKB Series									Approx. Wt(kg)
Bearing Number	Dimensions(in./mm)				Capacities(N)				
	d	D	L1	L2	Cor	Cr	Coa	Ca	
HKB020X	2	2.625	2.231	2.393	4130	3370	10400	5020	0.073
	50.8	66.675	56.7	60.8					
HKB025X	2.5	3.125	2.731	2.893	5070	3770	12620	5730	0.091
	63.5	79.375	69.4	73.5					
HKB030X	3	3.625	3.231	3.393	5960	4150	14890	6400	0.109
	76.2	92.075	82.1	86.2					
HKB035X	3.5	4.125	3.731	3.893	6850	4510	17160	7070	0.125
	88.9	104.775	94.8	98.9					
HKB040X	4	4.625	4.231	4.393	7780	4850	19430	7650	0.14
	101.6	117.475	107.5	111.6					
HKB042X	4.25	4.875	4.481	4.643	8130	4980	20310	7910	0.147
	107.95	123.825	113.8	117.9					
HKB045X	4.5	5.125	4.731	4.893	8670	5180	21690	8220	0.16
	114.3	130.175	120.2	124.3					
HKB047X	4.75	5.375	4.981	5.143	9020	5300	22580	8450	0.163
	120.65	136.525	126.6	130.6					
HKB050X	5	5.625	5.231	5.393	9560	5490	23910	8800	0.172
	127	142.875	132.9	137					
HKB055X	5.5	6.125	5.731	5.893	10490	5800	26180	9340	0.186
	139.7	155.575	145.6	149.7					
HKB060X	6	6.625	6.231	6.393	11380	6090	28450	9870	0.205
	152.4	168.275	158.3	162.4					
HKB065X	6.5	7.125	6.731	6.893	12270	6380	30720	10400	0.216
	165.1	180.975	171	175.1					
HKB070X	7	7.625	7.231	7.393	13200	6660	32980	10890	0.232
	177.8	193.675	183.7	187.8					
HKB075X	7.5	8.125	7.731	7.893	14090	6930	35200	11380	0.25
	190.5	206.375	196.4	200.5					
HKB080X	8	8.625	8.231	8.393	14980	7190	37470	11870	0.262
	203.2	219.075	209.1	213.2					
HKB090X	9	9.625	9.231	9.393	16800	7700	42000	12800	0.3
	228.6	244.475	234.5	238.6					
HKB100X	10	10.625	10.231	10.393	18620	8180	46500	13690	0.331
	254	269.875	259.9	264					
HKB110X	11	11.625	11.231	11.393	20400	8650	51030	14580	0.36
	279.4	295.275	285.3	289.4					
HKB120X	12	12.625	12.231	12.393	22230	9090	55560	15420	0.39
	304.8	320.675	310.7	314.8					
HKB140X	14	14.625	14.231	14.393	25830	9930	64590	17070	0.476
	355.6	371.475	361.5	365.6					
HKB160X	16	16.625	16.231	16.393	29430	10710	73610	18630	0.544
	406.4	422.275	412.3	416.4					
HKB180X	18	18.625	18.231	18.393	33070	11450	82630	20090	0.612
	457.2	473.075	463.1	467.2					
HKB200X	20	20.625	20.231	20.393	36670	12140	91660	21560	0.68
	508	523.875	513.9	518					

3/16" Steel ball



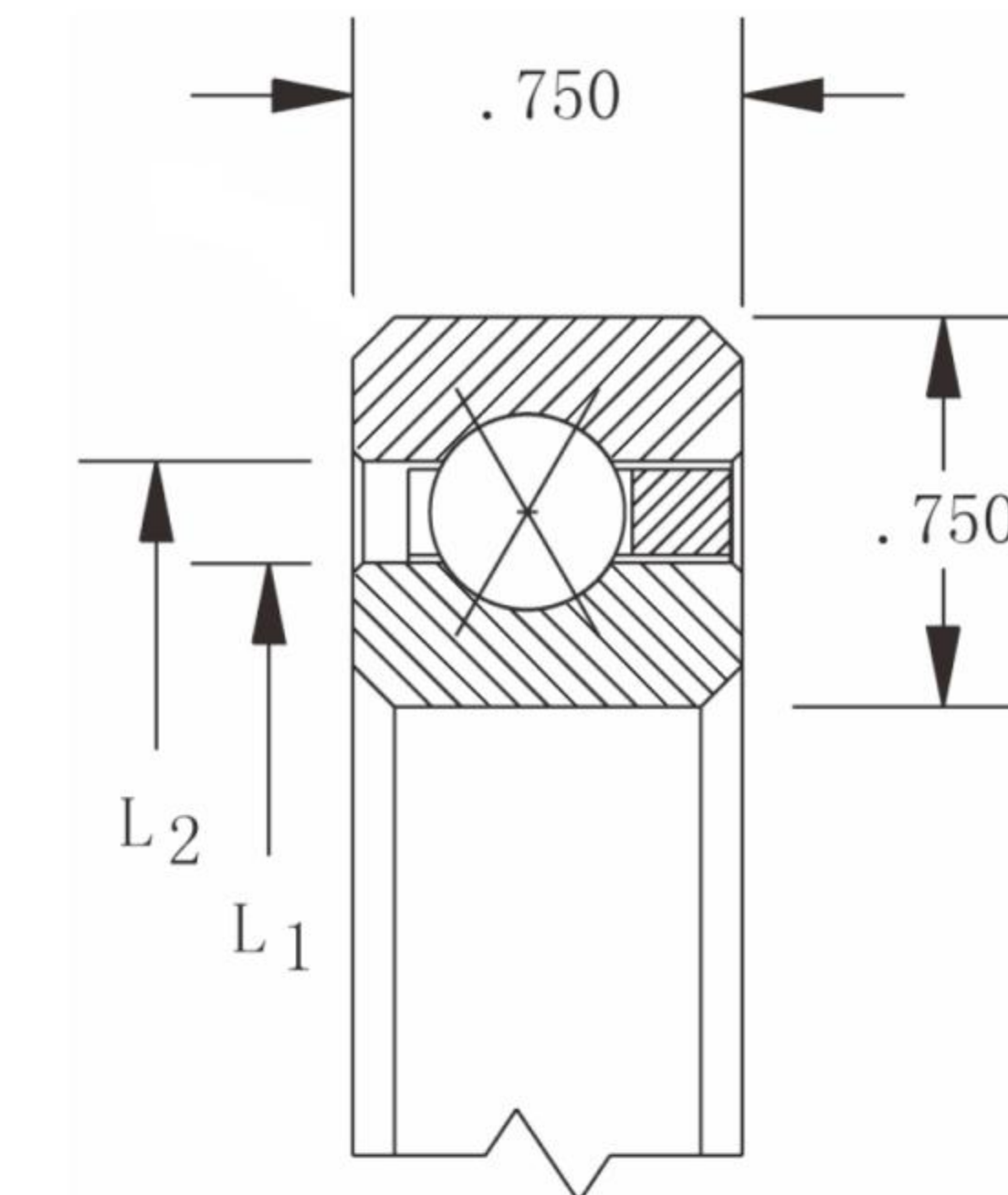
HKC Series									Approx. Wt(kg)
Bearing Number	Dimensions(in./mm)				Capacities(N)				
	d	D	L1	L2	Cor	Cr	Coa	Ca	
HKC040X	4	4.75	4.277	4.473	9340	6300	23380	9820	0.204
	101.6	120.65	108.6	113.6					
HKC042X	4.2	5	4.527	4.723	9870	6510	24710	10180	0.213
	107.95	127	115	120					
HKC045X	4.5	5.25	4.777	4.973	10400	6710	26050	10580	0.225
	114.3	133.35	121.3	126.3					
HKC047X	4.75	5.5	5.027	5.223	10940	6920	27380	10940	0.235
	120.65	139.7	127.7	132.7					
HKC050X	5	5.75	5.277	5.473	11510	7110	28720	11290	0.263
	127	146.05	134	139					
HKC055X	5.5	6.25	5.777	5.973	12580	7500	31380	11960	0.268
	139.7	158.75	146.7	151.7					
HKC060X	6	6.75	6.277	6.473	13650	7870	34050	12620	0.295
	152.4	171.45	159.4	164.4					
HKC065X	6.5	7.25	6.777	6.973	14710	8230	36760	13290	0.312
	165.1	184.15	172.1	177.1					
HKC070X	7	7.75	7.277	7.473	15780	8580	39430	13910	0.34
	177.8	196.85	184.8	189.8					
HKC075X	7.5	8.25	7.777	7.973	16850	8920	42090	14540	0.36
	190.5	209.55	197.5	202.5					
HKC080X	8	8.75	8.277	8.473	17910	9250	44760	15160	0.387
	203.2	222.25	210.2	215.2					
HKC090X	9	9.75	9.277	9.473	20050	9900	50100	16310	0.45
	228.6	247.65	235.6	240.6					
HKC100X	10	10.75	10.277	10.473	22180	10510	55430	17470	0.481
	254	273.05	261	266					
HKC110X	11	11.75	11.277	11.473	24310	11100	60810	18580	0.526
	279.4	298.45	286.4	291.4					
HKC120X	12	12.75	12.277	12.473	26450	11660	66140	19650	0.567
	304.8	323.85	311.8	316.8					
HKC140X	14	14.75	14.277	14.473	30720	12720	76810	21740	0.689
	355.6	374.65	362.6	367.6					
HKC160X	16	16.75	16.277	16.473	35030	13720	87520	23690	0.785
	406.4	425.45	413.4	418.4					
HKC180X	18	18.75	18.277	18.473	39290	14650	98190	25600	0.88
	457.2	476.25	464.2	469.2					
HKC200X	20	20.75	20.277	20.473	43560	15520	108900	27430	0.98
	508	527.05	515.0	520					

1/4" Steel ball



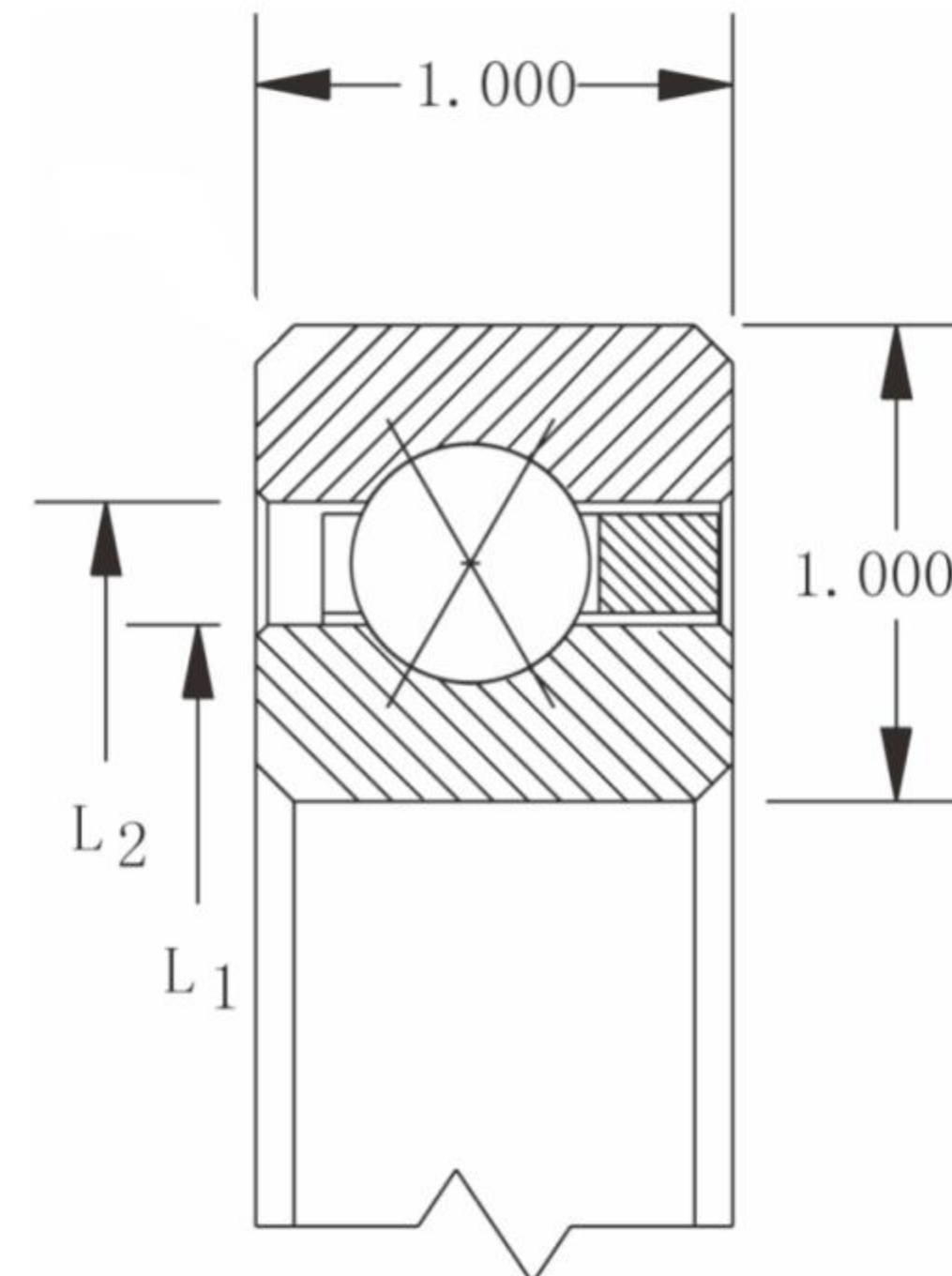
HKD Series									Approx. Wt(kg)
Bearing Number	Dimensions(in./mm)				Capacities(N)				
	d	D	L1	L2	Cor	Cr	Coa	Ca	
HKD040X	4	5	4.37	4.63	13690	10270	34230	15650	0.366
	101.6	127	111	117.6					
HKD042X	4.25	5.25	4.62	4.88	14180	10470	35470	16000	0.386
	107.95	133.35	117.3	124					
HKD045X	4.5	5.5	4.87	5.13	15200	10910	38010	16760	0.405
	114.3	139.7	123.7	130.3					
HKD047X	4.75	5.75	5.12	5.38	15690	11100	39290	17160	0.426
	120.65	146.05	130	136.7					
HKD050X	5	6	5.37	5.63	16710	11520	41830	17870	0.454
	127	152.4	136.4	143					
HKD055X	5.5	6.5	5.87	6.13	18230	12110	45610	18940	0.485
	139.7	165.1	149.1	155.7					
HKD060X	6	7	6.37	6.63	19780	12690	49430	19960	0.526
	152.4	177.8	161.8	168.4					
HKD065X	6.5	7.5	6.87	7.13	21290	13250	53210	20980	0.566
	165.1	190.5	174.5	181.1					
HKD070X	7	8	7.37	7.63	22800	13790	57020	21960	0.606
	177.8	203.2	187.2	193.8					
HKD075X	7.5	8.5	7.87	8.13	24310	14320	60810	22940	0.65
	190.5	215.9	199.9	206.5					
HKD080X	8	9	8.37	8.63	25830	14840	64630	23870	0.694
	203.2	228.6	212.6	219.2					
HKD090X	9	10	9.37	9.63	28890	15830	72230	25740	0.78
	228.6	254	238	244.6					
HKD100X	10	11	10.37	10.63	31920	16790	79830	27520	0.853
	254	279.4	263.4	270					
HKD110X	11	12	11.37	11.63	34980	17700	87430	29200	0.934
	279.4	304.8	288.8	295.4					
HKD120X	12	13	12.37	12.63	38010	18570	95030	30890	1.02
	304.8	330.2	314.2	320.8					
HKD140X	14	15	14.37	14.63	44090	20230	110240	34090	1.24
	355.6	381	365	371.6					
HKD160X	16	17	16.37	16.63	50180	21780	125440	37160	1.41
	406.4	431.8	415.8	422.4					
HKD180X	18	19	18.37	18.63	56230	23230	140640	40140	1.58
	457.2	482.6	466.6	473.2					
HKD200X	20	21	20.37	20.63	62320	24600	155840	42980	1.75
	508	533.4	517.4	524					

3/8" Steel ball



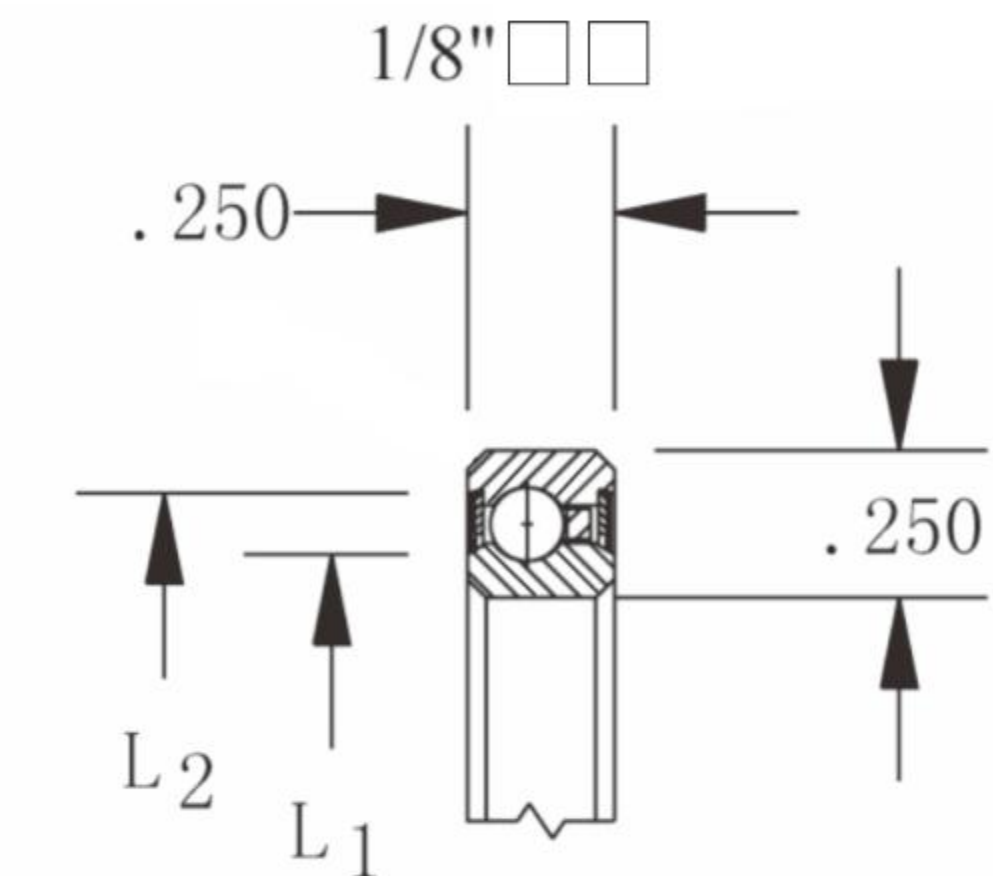
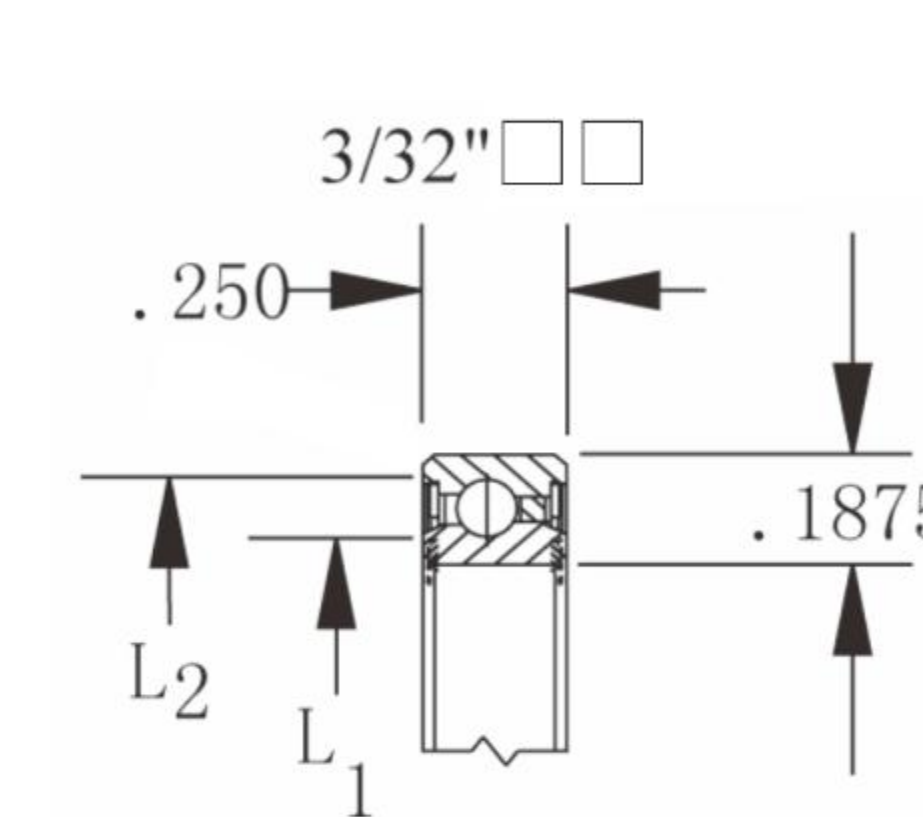
HKF Series									Approx. Wt(kg)
Bearing Number	Dimensions(in./mm)				Capacities(N)				
	d	D	L1	L2	Cor	Cr	Coa	Ca	
HKF040X	4	5.5	4.555	4.945	23830	20740	59560	30360	0.875
	101.6	139.7	115.7	125.6					
HKF042X	4.25	5.75	4.805	5.195	25070	21310	62720	31430	0.93
	107.95	146.05	122	132					
HKF045X	4.5	6	5.055	5.445	26360	21880	65830	32450	0.975
	114.3	152.4	128.4	138.3					
HKF047X	4.75	6.25	5.305	5.695	27600	22440	68990	33470	1.04
	120.65	158.75	134.7	144.7					
HKF050X	5	6.5	5.555	5.945	28850	22990	72100	34490	1.09
	127	165.1	141.1	151					
HKF055X	5.5	7	6.055	6.445	31340	24070	78370	36450	1.18
	139.7	177.8	153.8	163.7					
HKF060X	6	7.5	6.555	6.945	33870	25120	84680	38360	1.24
	152.4	190.5	166.5	176.4					
HKF065X	6.5	8	7.055	7.445	36360	26140	909050	40230	1.35
	165.1	203.2	179.2	189.1					
HKF070X	7	8.5	7.555	7.945	38890	27130	97210	42050	1.45
	177.8	215.9	191.9	201.8					
HKF075X	7.5	9	8.055	8.445	41380	28110	103480	43870	1.56
	190.5	228.6	204.6	214.5					
HKF080X	8	9.5	8.555	8.945	43920	29050	109750	456010	1.66
	203.2	241.3	217.3	227.2					
HKF090X	9	10.5	9.555	9.945	48900	30880	122280	49030	1.81
	228.6	366.7	242.7	252.6					
HKF100X	10	11.5	10.555	10.945	53920	32640	134820	52320	2.02
	254	292.1	268.1	278					
HKF110X	11	12.5	11.555	11.945	58940	34320	147350	55520	2.18
	279.4	317.5	293.5	303.4					
HKF120X	12	13.5	12.555	12.945	64960	35930	159890	58630	2.38
	304.8	342.9	318.9	328.8					
HKF140X	14	15.5	14.555	14.945	74010	39010	185000	64590	2.72
	355.6	393.7	369.7	379.6					
HKF160X	16	17.5	16.555	16.945	84010	41880	210070	70320	3.22
	406.4	444.5	420.5	430.4					
HKF180X	18	19.5	18.555	18.945	94060	44580	235140	75830	3.58
	457.2	495.3	471.3	481.2					
HKF200X	20	21.5	20.555	20.945	104100	47130	260260	81120	4.04
	508	546.1	522.1	532					

1/2" Steel ball



HKG Series									Approx. Wt(kg)
Bearing Number	Dimensions(in./mm)				Capacities(N)				
	d	D	L1	L2	Cor	Cr	Coa	Ca	
HKG040X	4	6	4.742	5.258	36490	35190	91210	50050	1.65
	101.6	152.4	120.4	133.6					
HKG042X	4.25	6.25	4.992	5.508	36490	35470	91210	50050	1.75
	107.95	158.75	126.8	139.9					
HKG045X	4.5	6.5	5.242	5.758	38940	36470	97300	52230	1.81
	114.3	165.1	133.1	146.3					
HKG047X	4.75	6.75	5.492	6.008	41340	37730	103390	54360	1.91
	120.65	171.45	139.5	152.6					
HKG050X	5	7	5.742	6.258	43780	38950	109440	56500	2.02
	127	177.8	145.8	159					
HKG055X	5.5	7.5	6.242	6.758	46230	39910	115530	58590	2.17
	139.7	190.5	158.5	171.7					
HKG060X	6	8	6.742	7.258	51070	42240	127710	62630	2.31
	152.4	203.2	171.2	184.4					
HKG065X	6.5	8.5	7.242	7.758	53520	43180	133800	64590	2.47
	165.1	215.9	183.9	197.1					
HKG070X	7	9	7.742	8.258	58360	45380	145930	68450	2.67
	177.8	228.6	196.6	209.8					
HKG075X	7.5	9.5	8.242	8.758	60810	46270	152020	70320	2.83
	190.5	241.3	209.3	222.5					
HKG080X	8	10	8.742	9.258	65650	48370	164200	74010	3
	203.2	254	222	235.2					
HKG090X	9	11	9.742	10.258	72990	51240	182420	79430	3.3
	228.6	279.4	247.4	260.6					
HKG100X	10	12	10.742	11.258	80230	54000	200650	84630	3.65
	254	304.8	272.8	286					
HKG110X	11	13	11.742	12.258	87570	56630	218920	89700	3.96
	279.4	330.2	298.2	311.4					
HKG120X	12	14	12.742	13.258	94860	59190	237140	94590	4.32
	304.8	355.6	323.6	336.8					
HKG140X	14	16	14.742	15.258	109440	64030	273630	104060	4.96
	355.6	406.4	374.4	387.6					
HKG160X	16	18	16.742	17.258	124060	68570	310130	113130	5.65
	406.4	457.2	425.2	438.4					
HKG180X	18	20	18.742	19.258	138640	72840	346620	121840	6.28
	457.2	508	476	489.2					
HKG200X	20	22	20.742	21.258	153220	76870	383070	130240	7.53
	508	558.8	526.8	540					

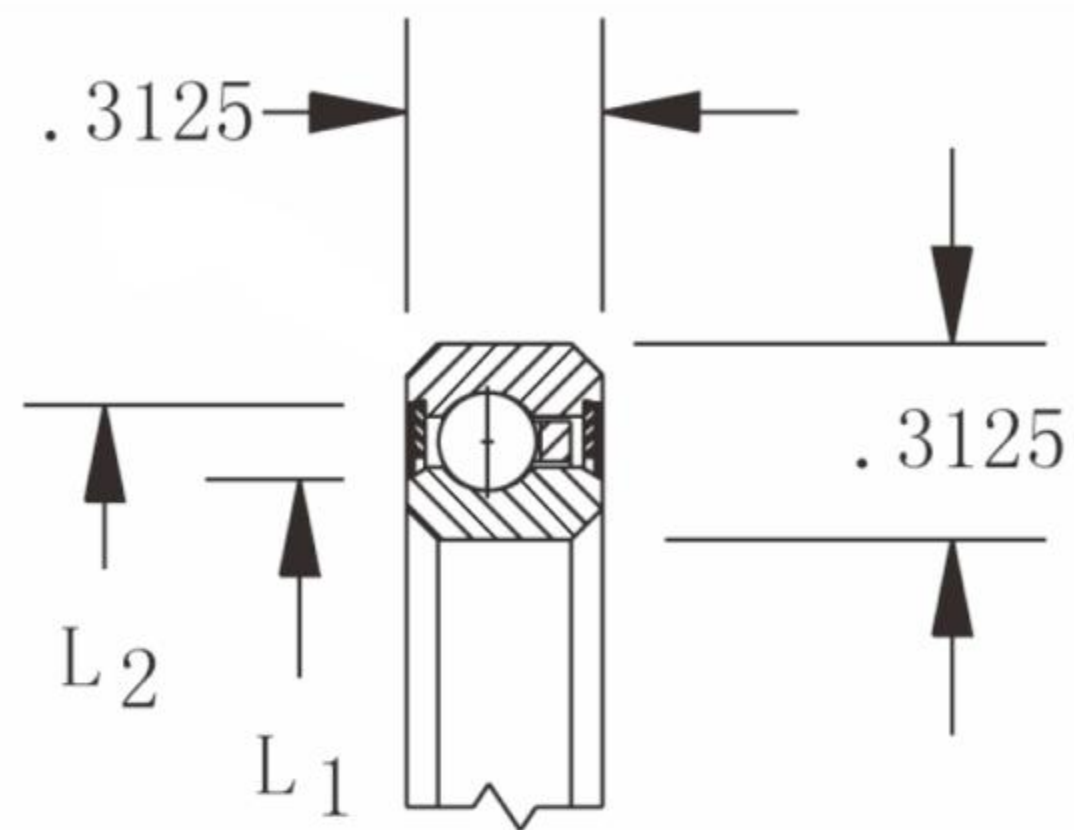
Sealed Series: Radial Contact (Type C)



HJHA Series							Approx. Wt(kg)
Bearing Number	Dimensions(in./mm)				Capacities(N)		
	d	D	L1	L2	Cor	Cr	
HJHA010C	1.000	1.375	1.108	1.274	1290	840	0.016
	25.4	34.925	28.1	32.4			
HJHA015C	1.500	1.875	1.608	1.771	1780	1000	0.024
	38.1	47.625	40.8	45.1			

HJA Series							Approx. Wt(kg)
Bearing Number	Dimensions(in./mm)				Capacities(N)		
	d	D	L1	L2	Cor	Cr	
HJA020C	2	2.5	2.148	2.356	3020	1750	0.045
	50.8	63.5	54.6	59.8			
HJA025C	2.5	3	2.648	2.856	3690	1960	0.054
	63.5	76.2	62.7	72.5			
HJA030C	3	3.5	3.148	3.356	4400	2160	0.064
	76.2	88.9	80	85.2			
HJA035C	3.5	4	3.648	3.856	5070	2360	0.077
	88.9	101.6	92.7	98			
HJA040C	4	4.5	4.148	4.356	5730	2540	0.086
	101.6	114.3	105.4	110.6			
HJA042C	4.25	4.75	4.398	4.606	6090	2630	0.091
	107.95	120.65	111.7	117			
HJA045C	4.5	5	4.684	4.856	6400	2710	0.095
	114.3	127	118	123.3			
HJA047C	4.75	5.25	4.898	5.106	6760	2800	0.1
	120.65	133.35	124.4	129.7			
HJA050C	5	5.5	5.148	5.356	7070	2880	0.104
	127	139.7	130.8	136			
HJA055C	5.500	6.000	5.648	5.856	7780	3040	0.113
	139.7	152.4	143.5	148.7			
HJA060C	6.000	6.500	6.148	6.356	8450	3200	0.127
	152.4	165.1	156.2	161.4			
HJA065C	6.500	7.000	6.648	6.856	9110	3350	0.136
	165.1	177.8	168.9	174.1			

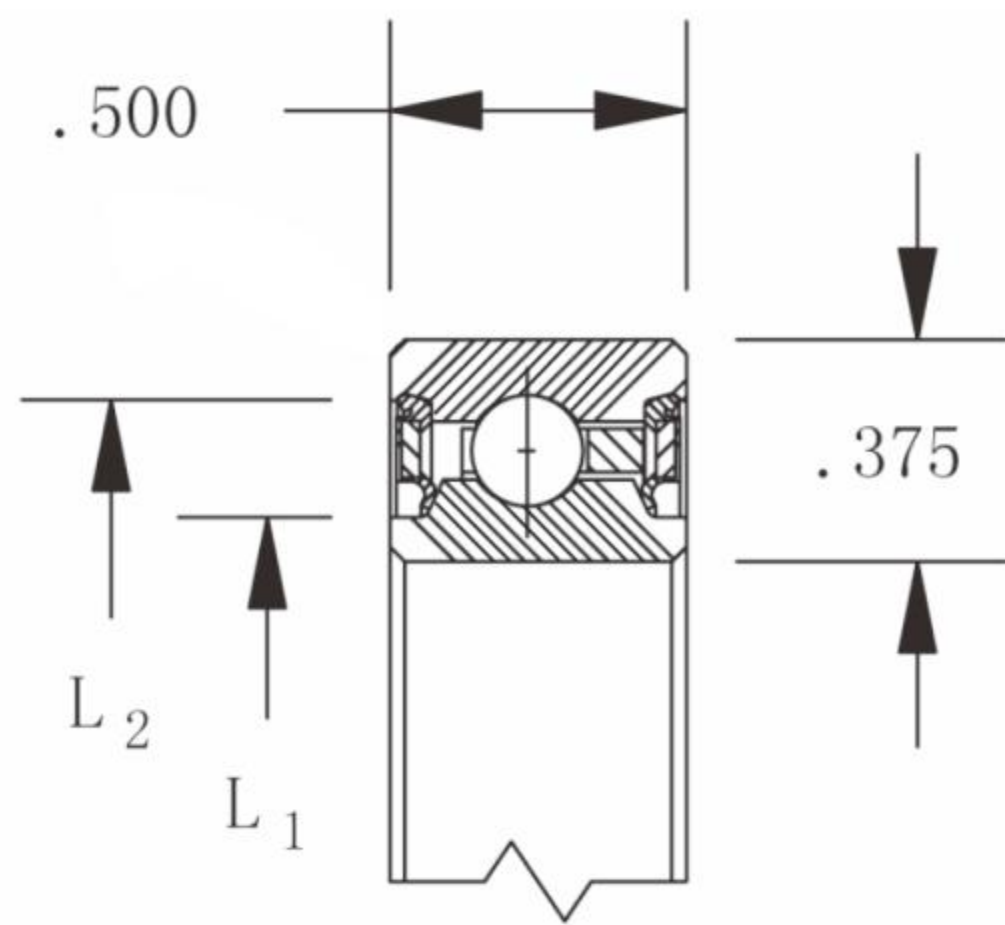
5/32" Steel ball



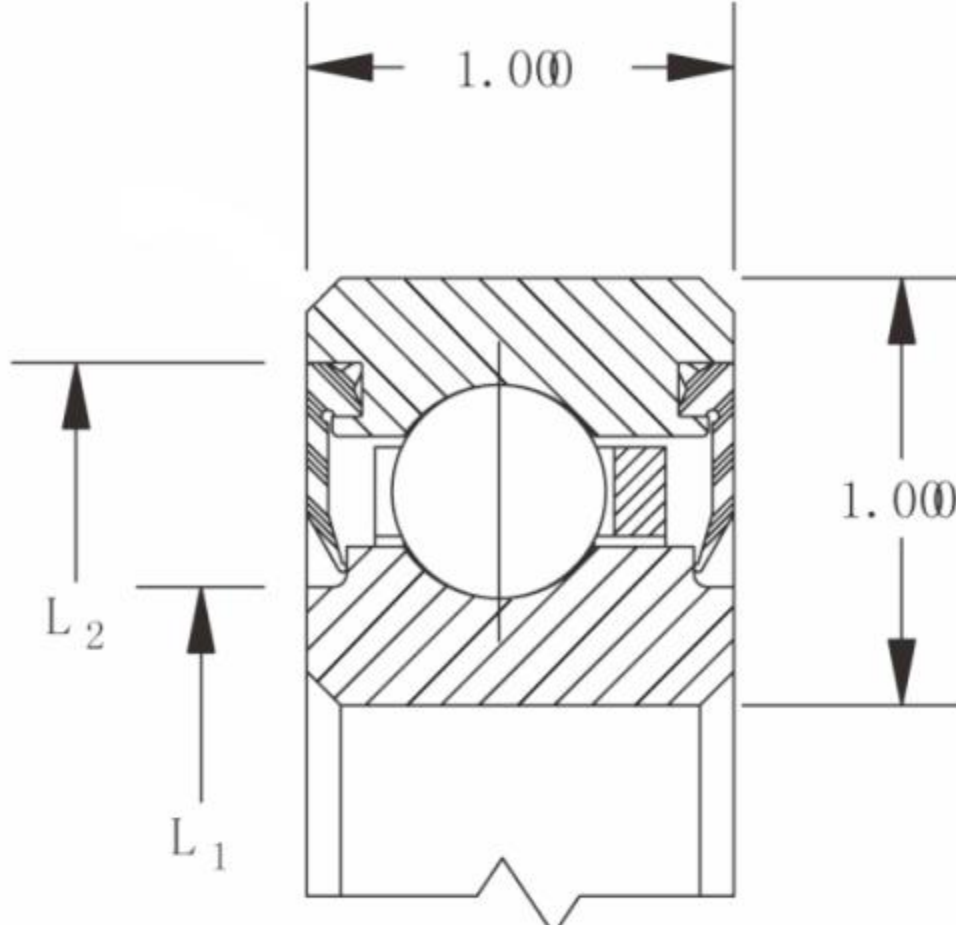
HJB Series							Approx. Wt(kg)
Bearing Number	Dimensions(in./mm)				Capacities(N)		
	d	D	L1	L2	Cor	Cr	
HJB020C	2	2.625	2.136	2.362	4130	2560	0.068
	50.8	66.7	54.3	60			
HJB025C	2.5	3.125	2.636	2.862	5070	2860	0.086
	63.5	79.375	67	72.7			
HJB030C	3	3.625	3.136	3.362	5960	3140	0.1
	76.2	92.075	79.7	85.4			
HJB035C	3.5	4.125	3.636	3.862	6850	3450	0.122
	88.9	104.775	92.4	98.1			
HJB040C	4	4.625	4.136	4.362	7780	3670	0.136
	101.6	117.475	105	110.8			
HJB042C	4.25	4.875	4.386	4.662	8130	3760	0.141
	107.95	123.825	111.4	118.4			
HJB045C	4.5	5.125	4.636	4.862	8670	3910	0.154
	114.3	130.175	117.8	123.5			
HJB047C	4.75	5.375	4.886	5.162	9020	4010	0.159
	120.65	136.525	124.1	131.1			
HJB050C	5	5.625	5.136	5.362	9560	4150	0.168
	127	142.875	130.5	136.2			
HJB055C	5.5	6.125	5.636	5.862	10490	4375	0.181
	139.7	155.575	143.2	148.9			
HJB060C	6	6.625	6.136	6.362	11380	4600	0.2
	152.4	168.275	155.9	161.6			
HJB065C	6.5	7.125	6.638	6.862	12270	4810	0.213
	165.1	180.975	168.6	174.3			

Precision thin–Section bearings

3/16" Steel ball



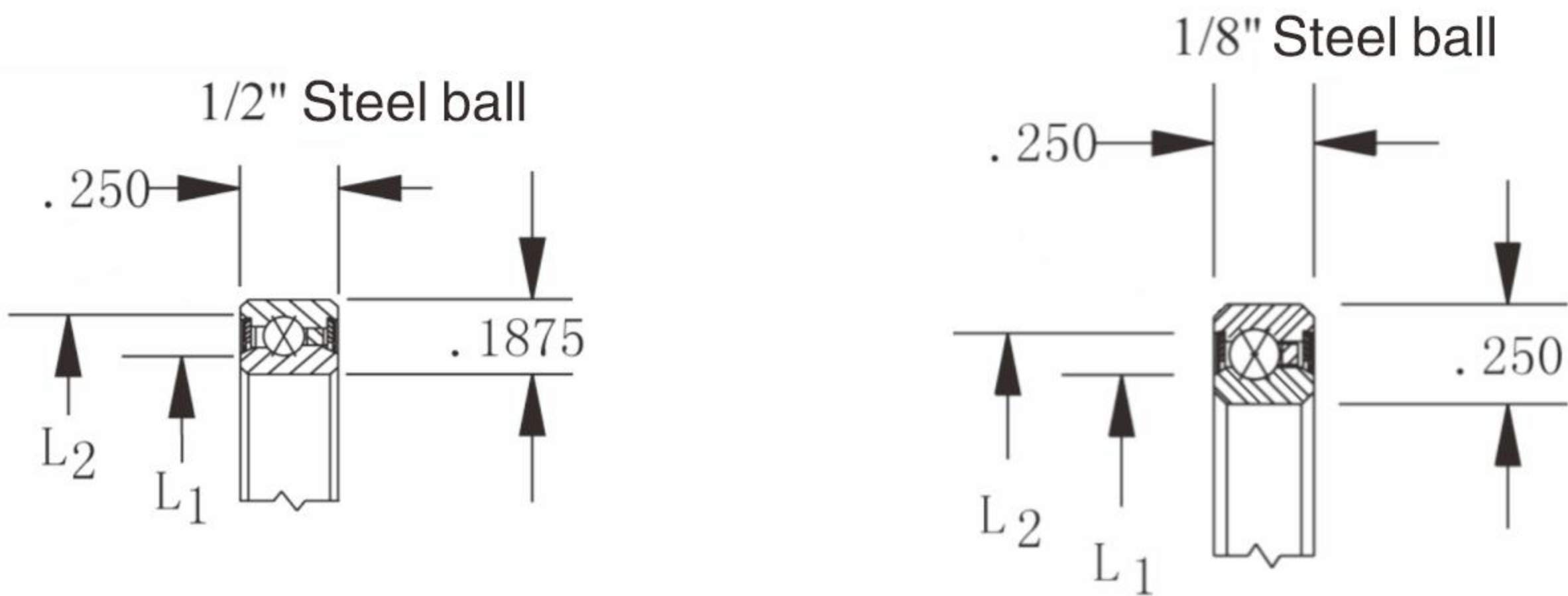
1/2" Steel ball



HJU Series							Approx. Wt(kg)
Bearing Number	Dimensions(in./mm)				Capacities(N)		
	d	D	L1	L2	Cor	Cr	
HJU040C	4	4.75	4.15	4.547	9340	4770	0.249
	101.6	120.65	105.4	115.5			
HJU042C	4.25	5	4.4	4.797	9870	4930	0.263
	107.95	127	111.76	121.8			
HJU045C	4.5	5.25	4.65	5.047	10400	5080	0.277
	114.3	133.35	118.1	128.2			
HJU047C	4.75	5.5	4.9	5.295	10940	5230	0.295
	120.65	139.7	124.5	134.5			
HJU050C	5	5.75	5.15	5.545	11510	5370	0.308
	127	146.05	130.8	140.8			
HJU055C	5.5	6.25	5.56	6.042	12580	5660	0.336
	139.7	158.75	143.5	153.5			
HJU060C	6	6.75	6.15	6.542	13650	5940	0.367
	152.4	171.45	156.2	166.2			
HJU065C	6.5	7.25	6.65	7.037	14710	6210	0.395
	165.1	184.15	168.9	178.7			
HJU070C	7	7.75	7.15	7.537	15780	6480	0.422
	177.8	196.85	181.6	191.4			
HJU075C	7.5	8.25	7.65	8.037	16850	6730	0.449
	190.5	209.55	194.3	204.1			
HJU080C	8	8.75	8.15	8.537	17910	6980	0.481
	203.2	222.25	207	216.8			
HJU090C	9	9.75	9.15	9.535	20050	7460	0.535
	228.6	247.65	232.4	242.2			
HJU100C	10	10.75	10.15	10.535	22180	7920	0.594
	254	273.05	257.8	267.6			
HJU110C	11	11.75	11.15	11.535	24310	8350	0.649
	279.4	298.45	283.2	293			
HJU120C	12	12.75	12.15	12.535	26450	8770	0.708
	304.8	323.85	308.6	318.4			

HJG Series							Approx. Wt(kg)
Bearing Number	Dimensions(in./mm)				Capacities(N)		
	d	D	L1	L2	Cor	Cr	
HJG120C	12	14	12.554	13.602	94860	44780	4.218
	304.8	355.6	318.9	345.5			
HJG140C	14	16	14.554	15.602	109440	48390	4.899
	355.6	406.4	369.7	396.3			
HJG160C	16	18	16.554	17.602	124060	51780	5.579
	406.4	457.2	420.5	447.1			
HJG180C	18	20	18.554	19.602	138640	54970	6.214
	457.2	508	471.3	497.9			
HJG200C	20	22	20.554	21.602	153220	57980	7.167
	508	558.8	522.1	548.7			

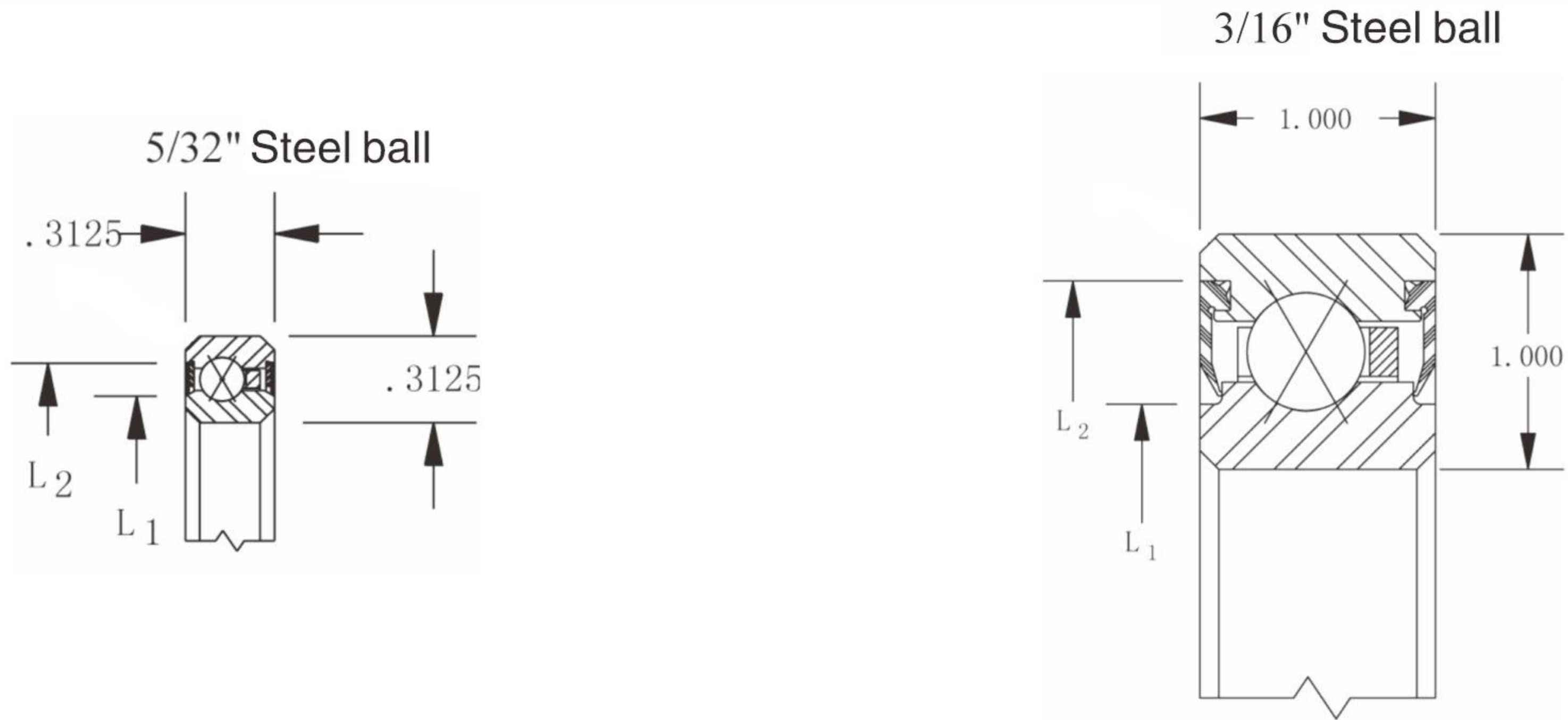
Sealed Series:
Four-Point Contact (Type X)



HJHA Series									Approx. Wt(kg)
Bearing Number	Dimensions(in./mm)				Capacities(N)				
	d	D	L1	L2	Radial		Axial		
					Cor	Cr	Coa	Ca	
HJHA010X	1.000	1.375	1.108	1.274	1290	1100	3250	1650	0.016
	25.4	34.925	28.1	32.4					
HJHA015X	1.500	1.875	1.608	1.774	1780	1320	4450	2050	0.024
	38.1	47.625	40.8	45.1					

HJA Series									Approx. Wt(kg)
Bearing Number	Dimensions(in./mm)				Capacities(N)				
					Radial		Axial		
	d	D	L1	L2	Cor	Cr	Coa	Ca	
HJA020X	2	2.5	2.148	2.356	3020	2280	7600	3510	0.045
	50.8	63.5	54.6	59.8					
HJA025X	2.5	3	2.648	2.856	3690	2590	9290	4050	0.054
	63.5	76.2	62.7	72.5					
HJA030X	3	3.5	3.148	3.356	4400	2860	10980	4490	0.064
	76.2	88.9	80	85.2					
HJA035X	3.5	4	3.648	3.856	5070	3120	12670	4930	0.077
	88.9	101.6	92.7	98					
HJA040X	4	4.5	4.148	4.356	5730	3360	14310	5380	0.086
	101.6	114.3	105.4	110.6					
HJA042X	4.25	4.75	4.398	4.606	6090	3480	15160	5600	0.091
	107.95	120.65	111.7	117					
HJA045X	4.5	5	4.648	4.856	6400	3600	16000	5820	0.095
	114.3	127	118	123.3					
HJA047X	4.75	5.250	4.898	5.106	6760	3710	16850	6000	0.1
	120.65	133.35	124.4	129.7					
HJA050X	5	5.500	5.148	5.365	7070	3820	17690	6220	0.104
	127	139.7	130.8	136					
HJA055X	5.500	6.000	5.648	5.856	7780	4040	19380	6580	0.113
	139.7	152.4	143.5	148.7					
HJA060X	6.000	6.500	6.148	6.356	8450	4250	21070	6980	0.127
	152.4	165.1	156.2	161.4					
HJA065X	6.500	7.000	6.648	6.856	9110	4450	22760	7330	0.136
	165.1	177.8	168.9	174.1					

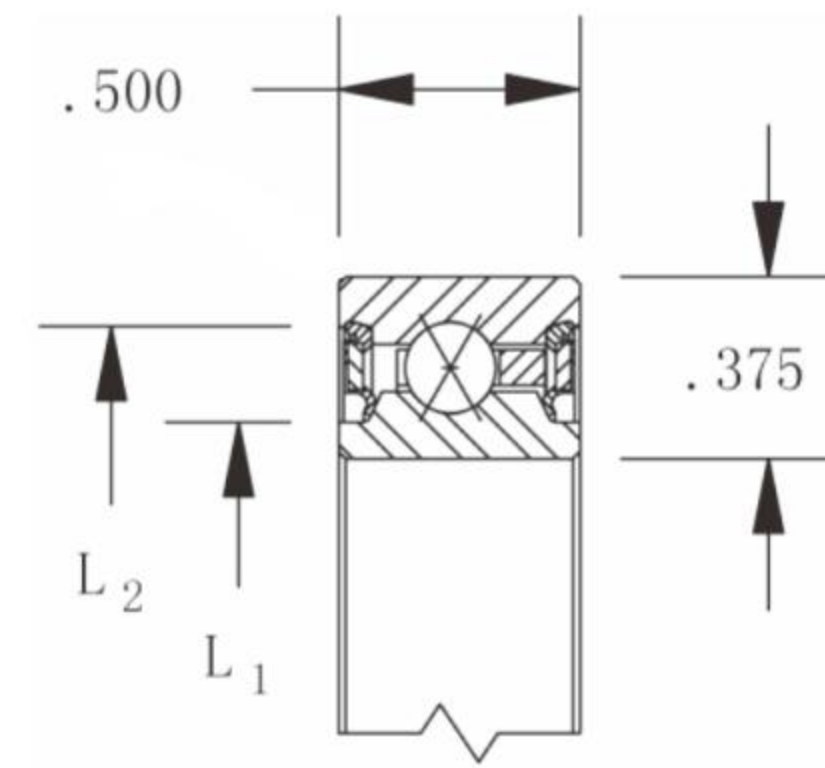
Precision thin-Section bearings



HJB Series									Approx. Wt(kg)
Bearing Number	Dimensions(in./mm)				Capacities(N)				
					Radial		Axial		
	d	D	L1	L2	Cor	Cr	Coa	Ca	
HJB020X	2	2.625	2.136	2.362	4130	3370	10400	5020	0.068
	50.8	66.675	54.3	60					
HJB025X	2.5	3.125	2.636	2.862	5070	3770	12620	5730	0.086
	63.5	79.375	67	72.7					
HJB030X	3	3.625	3.136	3.362	5960	4150	14890	6400	0.1
	76.2	92.075	79.7	85.4					
HJB035X	3.5	4.125	3.636	3.862	6850	4510	17160	7070	0.122
	88.9	104.775	92.4	98.1					
HJB040X	4	4.625	4.136	4.362	7780	4850	19430	7650	0.136
	101.6	117.475	105	110.8					
HJB042X	4.25	4.875	4.386	4.662	8130	4980	20310	7910	0.141
	107.95	123.825	111.4	118.4					
HJB045X	4.5	5.125	4.636	4.862	8670	5180	21690	8220	0.154
	114.3	130.175	117.8	123.5					
HJB047X	4.75	5.375	4.886	5.162	9020	5300	22580	8450	0.159
	120.65	136.525	124.1	131.1					
HJB050X	5	5.625	5.136	5.362	9560	5490	23910	8800	0.168
	127	142.875	130.5	136.2					
HJB055X	5.500	6.125	5.636	5.862	10490	5800	26180	9340	0.181
	139.7	155.575	143.2	148.9					
HJB060X	6.000	6.625	6.136	6.362	11380	6090	28450	9870	0.2
	152.4	168.275	155.9	161.6					
HJB065X	6.500	7.125	6.638	6.862	12270	6380	30720	10400	0.213
	165.1	180.975	168.6	174.3					

HJG Series									Approx. Wt(kg)
Bearing Number	Dimensions(in./mm)				Capacities(N)				
					Radial		Axial		
	d	D	L1	L2	Cor	Cr	Coa	Ca	
HJG120X	12	14	12.554	13.602	94860	59190	237140	94590	4.218
	304.8	355.6	318.9	345.5					
HJG140X	14	16	14.554	15.602	109440	64030	273630	104060	4.899
	355.6	406.4	369.7	396.3					
HJG160X	16	18	16.554	17.602	124060	68570	310130	113130	5.579
	406.4	457.2	420.5	447.1					
HJG180X	18	20	18.554	19.602	138640	72840	346620	121840	6.214
	457.2	508	471.3	497.9					
HJG200X	20	22	20.554	21.602	153220	76870	383070	130240	7.167
	508	558.8	522.1	548.7					

3/16" Steel ball



HJU Series									Approx. Wt(kg)
Bearing Number	Dimensions(in./mm)				Capacities(N)				
	d	D	L1	L2	Radial		Axial		
					Cor	Cr	Coa	Ca	
HJU040X	4	4.75	4.15	4.547	9340	6300	23380	9820	0.249
	101.6	120.65	105.4	115.5					
HJU042X	4.25	5	4.4	4.797	9870	6510	24710	10180	0.263
	107.95	127	111.76	121.8					
HJU045X	4.5	5.25	4.65	5.047	10400	6710	26050	10580	0.277
	114.3	133.35	118.1	128.2					
HJU047X	4.75	5	4.9	5.295	10940	6920	27380	10940	0.295
	120.65	139.7	124.5	134.5					
HJU050X	5	5.75	5.15	5.545	11510	7110	28720	11290	0.308
	127	146.05	130.8	140.8					
HJU055X	5.5	6.25	5.56	6.042	12580	7500	31380	11960	0.336
	139.7	158.75	143.5	153.5					
HJU060X	6	6.75	6.15	6.542	13650	7870	34050	12620	0.367
	152.4	171.45	156.2	166.2					
HJU065X	6.5	7.25	6.65	7.037	14710	8230	36760	13290	0.395
	165.1	184.15	168.9	178.7					
HJU070X	7	7.75	7.15	7.537	15780	8580	39430	13910	0.422
	177.8	196.85	181.6	191.4					
HJU075X	7.5	8.25	7.65	8.037	16850	8920	42090	14540	0.449
	190.5	209.55	194.3	204.1					
HJU080X	8	8.75	8.15	8.537	17910	9250	44760	15160	0.481
	203.2	222.25	207	216.8					
HJU090X	9	9.75	9.15	9.535	20050	9900	50100	16310	0.535
	228.6	247.65	232.4	242.2					
HJU100X	10	10.75	10.15	10.535	22180	10510	55430	17470	0.594
	254	273.05	257.8	267.6					
HJU110X	11	11.75	11.15	11.535	24310	11100	60810	18580	0.649
	279.4	298.45	283.2	293					
HJU120X	12	12.75	12.15	12.535	26450	11660	66140	19650	0.708
	304.8	323.85	308.6	318.4					

企业愿景：未来十年

在轧机轴承和薄壁轴承领域，
将“CHG”打造成中国第一品牌

你相信我不负你……