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# Mounted Ball Bearing Units



# LDK DEYUAN BEARING MANUFACTURING Co.,LTD

LDK, established in 1986, is a dynamic and customer focused bearing manufacturer delivering valued solutions to a global market.

Through years' development, the company has become an integrated economic entity of manufacturing, research & development and sales. Covering a floor area of nearly 10 thousand square meters and 6 thousand square meters of building area, the company has more than 200 employees and own laboratory, measuring room, more than 10 manufacturing workshops which has annual production capacity of 10 millions various kinds of bearings and housings.

## Our advantage

- Valued bearing solutions for Aviation, Navigation, Power, Agricultural, HVAC, Fluid, Mining, Food & Beverage, Lawn & Garden, Material handling and power transmission industries.
- TS16949 certified manufacturing facilities.
- Dedicated research and development center.
- Testing capabilities: Fatigue Life, Strength, Noise & Vibration and Salt Spray testing.
- Flexible manufacturing to allow for low to high volume production.
- Operational excellence through continuous improvement and investment.
- Excellent customer service.



① Foundry: Vertical casting production line



① Clean room: Automatic bearing assembly line



① Corner of Laboratory: Bearing fatigue life testing machine



① Measuring room



① Tensile strength tester: 100KN Universal testing machine.



① Grinding workshop



① Physicochemical analysis room -Metallographic room



① Physicochemical analysis room - Analysis and inspection of molding sand



## Contents

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<b>PRODUCT MODEL AND FEATURES</b>	<b>( Page16-22)</b>
<b>LDK AIR HANDLING BEARINGS</b>	<b>16</b>
<b>LDK SOLID-LUBE<sup>®</sup> BEARINGS</b>	<b>17</b>
<b>LDK ACCU-GRIP<sup>®</sup> BEARINGS</b>	<b>18</b>
<b>LDK WATERPROOF THERMOPLASTIC BEARING HOUSINGS</b>	<b>19</b>
<b>LDK ANTI-BACTERIA PROTECTION SERIES</b>	<b>20</b>
<b>SURFACE TREATMENT TO BEARINGS AND HOUSINGS</b>	<b>21</b>
<b>HIGH &amp; LOW TEMPERATURE UNITS</b>	<b>22</b>
<b>PART A</b>	
<b>ENGINEERING DATA</b>	<b>A1-A28</b>
<b>PART B</b>	
<b>1 MOUNTED UNITS</b>	
BALL BEARING UNITS	<b>B1-B60</b>
PLUMMER BLOCKS	<b>B61-B65</b>
STAMPED STEEL HOUSED UNITS	<b>B66-B69</b>
SILVER SERIES	<b>B70-B72</b>
AC UNITS	<b>B73-B75</b>
<b>2 CORROSION RESISTANT/WASH DOWN UNITS</b>	
THEMOPLASTIC BEARING UNITS	<b>B76-B93</b>
WATERPROOF PLASTIC BEARING UNTIS	<b>B94-B97</b>
ALL STAINLESS STEEL BEARING UNTIS	<b>B98-B119</b>
<b>3 BALL BEARING INSERTS</b>	
CHROME STEEL BEARING INSERTS	<b>B120-B130</b>
STAINLESS STEEL BEARING INSERTS	<b>B131-B138</b>
<b>4 AGRICULTURAL/FARM IMPLEMENT BEARINGS</b>	<b>B139-B141</b>
<b>5 ADAPTER SLEEVE</b>	<b>B142-B146</b>

## Pillow Blocks

UCP200(Standard Duty)	.....	B1
NAP200(Standard Duty)	.....	B2
UEP200(Standard Duty)	.....	B3
UKP200+H (Standard Duty)	.....	B4
UCPX00(Medium Duty)	.....	B5
UCP300(Heavy Duty)	.....	B6
UCPE200 (Standard Duty)	.....	B7
UCAK200 (Standard Duty)	.....	B8
SALP200 & SBLP200 (Light Duty)	.....	B9
UCSB200(Standard Duty)	.....	B10



UCP  
UCPX  
UCP3



NAP



UEP



UKP+H



UCPE



UCAK



SALP



SBLP



UCSB



UCP+SM+S



UCP Hollow Base



UCP Solid Base

**UCP(UCPX,UCP3)** is a pillow block unit with a rigid cast iron housing and two set screws in the inner-ring spaced at 120 degrees for maximum holding power and reliability for a wide variety of applications and operating conditions.

**NAP** is a pillow block unit with an eccentric locking collar insert that provides a very secure grip to the shaft that becomes even more secure during continued operation. It is specifically used for single-direction/non-reversing rotation.

**UEP** is a pillow block unit with a specially designed concentric locking collar that provides 360 degrees of shaft contact. It produces a more concentric lock on the shaft compared to other locking styles and it functions very well for high speed applications.

**UKP** is a pillow block unit with a tapered-bore bearing insert that utilizes an adapter sleeve assembly to produce a highly concentric and secure lock on the shaft to reduce slippage and fretting corrosion even under adverse conditions.

**UCPE** has the same insert bearing that UCP does. Housing PE is with specially designed flank and solid base. These special features enable this unit specially good for wood processing, screening and mining industries.

**UCAK** has the similar features that UCP200 does. Housing AK is with low center base.

**SBLP** is a compact and lightweight pillow block unit which is ideal for limited space applications and light to moderate duty applications.

**SALP** with SA eccentric locking collar style is also available.

**UCSB** has a feature of anti-vibration, compact and easy to install. This makes a better performance than UCP.

Except PE style housing is with solid base, the rest of the styles are all with hollow base. However, upon request, these housings could also be made with solid base. Add a suffix "SB" as designation.

Housing is available with pressed steel end cap on one side or both sides. Add prefix "SM" for closed and "S" for open caps. Ordering example: UCP205+SM. SM205 for closed cap and S205 for open cap.

A standard housing is without cap groove. Upon request, housing could be machined cap groove. Add suffix "M" as ordering designation. Example P205 M.



UCPA



UEPA



UCPW



UCPG



UCTB



UETB

## Tapped Base Pillow Blocks

UCPA200 (Standard Duty) .....	B11
UEPA200 (Standard Duty) .....	B12
UCPW200 (Standard Duty) .....	B13
UCPG200 (Standard Duty) .....	B14
UCTB200 (Standard Duty) .....	B15

**UCPA** is tapped-base pillow blocks with threaded bolt holes in the bottom of the housings. They are ideal for exact unit positioning and limited space applications. They are available in both inch and metric bolt-hole dimensions. NA & UK styles are also available.

**UEPA** is a tapped-base pillow block unit with a specially designed concentric locking collar that provides 360 degrees of shaft contact. It produces a more concentric lock on the shaft compared to other locking styles and it functions very well for high speed applications.

**UCPW,UCPG** are tapped-base pillow blocks with threaded bolt holes in the bottom of the housings. They are ideal for exact unit positioning and limited space applications. They are available in both inch and metric bolt-hole dimensions. Drop in replacement to NBR.

**UCTB** has the same features that UCPA does but with inch-based housing.



UCPH

## Pedestal Base Pillow Blocks

UCPH200 (Standard Duty) .....	B16
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**UCPH** is a pedestal pillow block unit with an exceptionally high mounting base. It is ideal for applications where a shouldered shaft could create interference with the mounting surface when using a standard pillow block unit.



UCF  
UCFX  
UCF3



NAF



UEF



UKF+H



UCFS



NAFS

## 4-Bolt Flange Units

UCF200 (Standard Duty) .....	B17
NAF200 (Standard Duty) .....	B18
UEF200 (Standard Duty) .....	B19
UKF200+H (Standard Duty) .....	B20
UCFX00 (Medium Duty) .....	B21
UCF300 (Heavy Duty) .....	B22
UCFS300 (Heavy Duty) .....	B23
NAFS200 (Standard Duty) .....	B24

**UCF(UCFX,UCF3)** is a four-bolt flange unit with a rigid cast iron housing and two setscrews in the inner-ring spaced at 120 degrees for maximum holding power and reliability for a wide variety of applications and operating conditions. **UK** style is also available.

**NAF** is a four-bolt flange unit with an eccentric locking collar insert that provides a very secure grip to the shaft that becomes even more secure during continued operation. It is specifically used for single-direction/non-reversing rotation.



UCF Hollow Base



UCF+SM



UCF Solid Base

**UEF** is a four-bolt flange unit with a specially designed concentric locking collar that provides 360 degrees of shaft contact. It produces a more concentric lock on the shaft compared to other locking styles and it functions very well for high speed applications.

**UCFS3** is a piloted four-bolt flange unit available with a heavy duty bearing insert for a demanding operating environment. The pilot on the back of the housing allows for precise mounting where necessary. **UK** style is also available.

**NAFS** has the main features that the NAFL does but with extended housing height which allows wider inner ring not to extrude out of housing base.

All these housings are with hollow base. However, upon request, they could be made with solid base. To order, please add suffix "SB" as designation. Ordering example: UCF205 SB. A standard housing is without cap groove. Upon request, housing could be machined cap groove. Add suffix "M" as ordering designation. Example F205 M.

Housing is available with pressed steel end cap on one side. Add prefix "SM" for closed and "S" for open caps. Ordering example:UCF205+SM. SM205 for closed cap and S205 for open cap.

### 3-Bolt Flange Units



UCFB  
UCFB...A



UEFB



SBFCT



SAFCT

UCFB200 (Standard Duty)	.....	B25
UCFB200A (Standard Duty)	.....	B26
UEFB200 (Standard Duty)	.....	B27
SBFCT200 & SAFCT200 (Light Duty, Ductile Iron Housing)	.....	B28

**UCFB** is a three-bolt flange bracket with rigid cast iron housings and two setscrews in the inner ring spaced at 120 degrees for maximum holding power and reliability for a wide variety of applications and operating conditions. **UCFB** is with metric bolt-hole dimensions while **UCFB..A** is with inch bolt-hole dimensions.

**UEFB** is a three-bolt flange bracket with a specially designed concentric locking collar that provides 360 degrees of shaft contact. It produces a more concentric lock on the shaft compared to other locking styles and it functions very well for high speed applications.

**SBFCT,SAFCT** are compact and lightweight three-bolt flange units with square bolt holes for carriage bolts and a ductile iron housing for added strength. It is ideal for limited space applications and light to moderate duty applications. Housing made of ductile iron with feet. Insert bearing available with setscrew locking and eccentric locking.

### 2-Bolt Flange Units



UCFL  
UCFLX  
UCFL3



NAFL



UEFL



UKFL+H

UCFL200 (Standard Duty)	.....	B29
NAFL200 (Standard Duty)	.....	B30
UEFL200 (Standard Duty)	.....	B31
UKFL200+H (Standard Duty)	.....	B32
UCFLX00 (Medium Duty)	.....	B33
UCFL300 (Heavy Duty)	.....	B34
NAFLU200 (Standard Duty)	.....	B35
UCFT200 (Standard Duty)	.....	B36
UEFT200 (Standard Duty)	.....	B37
SBLF200 & SALF200 (Light Duty)	.....	B38
SBFW200 & SAFW200 (Light Duty)	.....	B39
SBFD200 & SAFD200 (Light Duty)	.....	B40
SBPFTD200 & SAPFTD200 (Light Duty,Ductile Iron Housing)	.....	B41



NAFLU



UCFL+SM



UCFT



UEFT



SBLF



SALF



SBFW



SAFW



SBFD



SAFD



SBPFTD



SAPFTD



UCFL Hollow Base



UCFL Solid Base

**UCFL (UCFLX,UCFL3)** is a two-bolt flange unit with a rigid cast iron housing and two setscrews in the inner-ring spaced at 120 degrees for maximum holding power and reliability for a wide variety of applications and operating conditions. **UK** style is also available. **UCFT** has the similar features that **UCFL** does but with inch-based housing.

**NAFL** is a two-bolt flange unit with an eccentric locking collar insert that provides a very secure grip to the shaft that becomes even more secure during continued operation. It is specifically used for single-direction/non-reversing rotation.

**UEFL** is a two-bolt flange unit with a specially designed concentric locking collar that provides 360 degrees of shaft contact. It produces a more concentric lock on the shaft compared to other locking styles and it functions very well for high speed applications.

**NAFLU** has the main features that **NAFL** does but with extended housing height which allows wider inner ring not to extrude out of housing base.

**UEFT** is a two-bolt flange unit with a specially designed concentric locking collar that provides 360 degrees of shaft contact. It produces a more concentric lock on the shaft compared to other locking styles and it functions very well for high speed applications. Housing FT is with inch-based dimensions.

**SBLF** is a compact and lightweight two-bolt flange unit which is ideal for limited space applications and light to moderate duty applications. **SALF** with SA eccentric locking collar style is also available.

**SBFW,SAFW** are lightweight bearing mounted two-bolt flange units which is ideal for limited space installation and light to moderate duty applications. FW housing is with mounting slot on the side of setscrew or eccentric locking collar. Insert bearing with setscrew or eccentric locking collar.

**SBFD,SAFD** are lightweight bearing mounted two-bolt flange units which is ideal for limited space installation and light to moderate duty applications. FD housing is with mounting slot on the opposite side of setscrew or eccentric locking collar. Insert bearing with setscrew or eccentric locking collar.

**SBPFTD,SAPFTD** are compact and lightweight three-bolt flange units with square bolt holes for carriage of bolts and a ductile iron housing for added strength. It is ideal for limited space installation and light to moderate duty applications.

Upon request, some of these housings could be made with solid base. To order, please add suffix "SB" as designation. Ordering example: UCFL205 SB. A standard housing is without cap groove. Upon request, housing could be machined cap groove. Add suffix "M" as ordering designation. Example FL205 M.

Housing is available with pressed steel end cap on one side. Add prefix "SM" for closed and "S" for open caps. Ordering example:UCF205+SM. SM205 for closed cap and S205 for open cap.

## Adjustable Flange Units

UCFA200 (Standard Duty) ..... B42



UCFA

**UCFA** is an adjustable two-bolt flange unit with a rigid cast iron housing and two setscrews in the inner-ring spaced at 120 degrees for maximum holding power and reliability for a wide variety of applications and operating conditions.

## Take Up Units



UCT  
UCTX  
UCT3



NAT



UET



UKT+H



UCST



UCT+SM

UCT200 (Standard Duty)	.....	B43
NAT200 (Standard Duty)	.....	B44
UET200 (Standard Duty)	.....	B45
UKT200+H (Standard Duty)	.....	B46
UCTX00 (Medium Duty)	.....	B47
UCT300 (Heavy Duty)	.....	B48
UCST200 (Standard Duty)	.....	B49

**UCT(UCTX,UCT3)** is a take-up unit suitable for use in a side-mount take-up frame. It has a rigid cast iron housing and setscrews in the inner ring spaced at 120 degrees for maximum holding power and reliability for a wide variety of applications and operating conditions. **UK** style is also available.

**NAT** is a take-up unit with an eccentric locking collar insert that provides a very secure grip to the shaft that becomes even more secure during continued operation. It is specifically used for single-direction/non-reversing rotation.

**UET** is a take-up unit with a specially designed concentric locking collar that provides 360 degrees of shaft contact. It produces a more concentric lock on the shaft compared to other locking styles and it functions very well for high speed applications.

**UCST** is a wide-slot narrow slot take up unit. It has a rigid cast iron housing and two setscrews in the inner-ring spaced at 120 degrees for maximum holding power and reliability for a wide variety of applications and operating conditions.

## Flange Cartridge Units



UCFC  
UCFCX



NAFC



UEFC



UKFC+H



UCFCS



UCFCSX

UCFC200 (Standard Duty)	.....	B50
NAFC200 (Standard Duty)	.....	B51
UEFC200 (Standard Duty)	.....	B52
UKFC200+H (Standard Duty)	.....	B53
UCFCX00 (Medium Duty)	.....	B54
UCFCS200 (Standard Duty)	.....	B55
UCFCSX00 (Medium Duty)	.....	B56

**UCFC,UCFCX** are piloted flange cartridge units with rigid cast iron housings and two setscrews in the inner-ring spaced at 120 degrees for maximum holding power and reliability for a wide variety of applications and operating conditions. The pilot on the back of the housing allows for precise mounting where necessary.

**UK,NA** and **UCX** styles are also available.

**UEFC** is a piloted flange cartridge unit with a specially designed concentric locking collar that provides 360 degrees of shaft contact. It produces a more concentric lock on the shaft compared to other locking styles and it functions very well for high speed.

**UCFCS/UCFCSX** have the similar features that UCFC/UCFCX do but housings are inch-based.



UCC

## Cylindrical Cartridge Units

UCC200 (Standard Duty) ..... B57

**UCC** is a cartridge unit with two specially designed setscrews in the inner-ring spaced at 120 degrees for maximum holding power and reliability for a wide variety of applications and operating conditions. The cartridge housing allows for precise shaft mounting and expansion capability where necessary. **UK, NA, UE** styles are also available.



UCHA



UEHA



UCHE

## Hanger Units

UCHA200 (Standard Duty) ..... B58

UEHA200 (Standard Duty) ..... B59

UCHE200 (Standard Duty) ..... B60

**UCHA,UCHE** are hanger unit with a threaded-base for simple installation on a threaded pipe mounting configuration. It has two setscrews in the inner-ring spaced at 120 degrees for maximum holding power and reliability for a wide variety of applications and operating conditions.

**UEHA** is a hanger unit with a threaded-base of simple installation on a threaded pipe mounting configuration. The insert bearing incorporates a specially designed concentric locking collar that provides 360 degrees of shaft contact. It produces a more concentric lock on the shaft compared to other locking styles and it functions very well for high speed applications.



SN



SNU



SNG



SAF

## Plummer Blocks

SN500 ..... B61

SNU500 ..... B62

SNG500 ..... B63

SAF500 ..... B64

Sealing Options ..... B65

**SN500(SNU,SNG)** have separate matched caps and bases. In larger sizes where plummer blocks are heavier, this split-block design eases installation. The block can be converted from fixed to float by adding or removing the locating rings. A variety of sealing options help protect against contamination for highly contaminated environment. Available in a variety of shaft sizes.

**SAF500** is specially designed for heavy load application. It has separate matched caps and bases. In larger sizes where plummer blocks are heavier, this split-block design eases installation. The block can be converted from fixed to float by adding or removing the locating rings. A variety of of sealing options help protect against contamination for highly contaminated environment. Available in a variety of shaft sizes. This split block is made by rugged cast iron. Cast ductile iron or cast steel are also available to match a range of industrial environments.



SBPP



SAPP



SBPFL



SAPFL



SAPF



SBPF



SAPFT



SBPFT

## Stamped Steel Housed Units

SBPP200 & SAPP200 (Light Duty)	.....	B66
SBPFL200 & SAPFL200 (Light Duty)	.....	B67
SAPF200 & SAPFT200 (Light Duty)	.....	B68
SBPF200 & SBPFT200 (Light Duty)	.....	B69

**SBPP** is a pillow block unit with a lightweight and compact stamped steel housing for light to moderate duty applications.

**SAPP** with SA eccentric locking collar style is also available.

**SBPFL** is a two-bolt flange unit with a lightweight and compact stamped steel housing for light to moderate duty applications.

**SAPFL** with SA eccentric locking collar style is also available.

**SBPF** is a round three-bolt flange unit with a lightweight and compact stamped steel housing for light to moderate duty applications.

**SAPF** with SA eccentric locking collar style is also available.

**SBPFT/SAPFT** triangle three-bolt flange units with a lightweight and compact stamped steel housing for light to moderate duty applications.

**SBPFT** is with setscrew and **SAPFT** is with eccentric locking collar.

## Silver Series

K000 & U000 (Light Duty)	.....	B70
UP000 & UFL000 (Light Duty)	.....	B71
KP000 & KP000+C/D & KFL000 & KFL000+C/D (Light Duty)	.....	B72



U...



K...



UP



KP



UFL



KFL



KP...C



KFL...C

### K...Setscrew locking

This deep groove ball bearing insert is intended for very light loads and is used in light duty conveying applications as part of our Silver Series. This bearing has a spherical O.D. and comes pre-lubricated from the factory. These inserts are with a wider inner ring and have no grease groove or grease holes for re-lubrication. Two setscrews at 120 degrees apart affix this insert to the shafting.

### U...Eccentric locking collar

This deep groove ball bearing insert is intended for very light loads and is used in light duty conveying applications as part of our Silver Series. This bearing has a spherical O.D. and with eccentric locking collar and comes pre-lubricated from the factory. These inserts are with wider inner ring and have no grease groove or grease holes for re-lubrication.

**UP** is a light duty pillow block unit that is part of the Silver Series. It has a zinc-alloy housing for a high level of corrosion resistance and it is capable of accepting end covers on both ends to increase contamination resistance. With eccentric locking collar.

**UFL** is a light duty two-bolt flange unit that is part of the Silver Series. It has a zinc-alloy housing for a high level of corrosion resistance and it is capable of accepting end covers to increase contamination resistance. With eccentric locking collar.

**KP** is a light duty pillow block unit that is part of the Silver Series. It has a zinc-alloy housing for a high level of corrosion resistance and it is capable of accepting end covers on both ends to increase contamination resistance. With setscrew locking.

**KFL** is a light duty two-bolt flange unit that is part of the Silver Series. It has a zinc-alloy housing for a high level of corrosion resistance and it is capable of accepting end covers to increase contamination resistance. With setscrew locking.



RSA



RSB



RCSA



RCSB



RSAPP



RSBPP

## AC Units

RSA200 & RSB200 (Light Duty)	.....	B73
RCSA200 & RCSB200 (Light Duty)	.....	B74
RSAPP200 & RSBPP200 (Light Duty)	.....	B75

**RCSA, RCSB** are rubber mounted cartridge units. The conductive rubber interliner helps dissipate static and reduce noise and vibration. RCSB has two setscrews 120° apart in the inner ring while RCSA is with eccentric locking collar. Both insert bearings are with cylindrical O.D.

**RSA, RSB** are rubber mounted cartridge units. The conductive rubber interliner helps dissipate static and reduce noise and vibration. RSB has two setscrews 120° apart in the inner ring while RSA is with eccentric locking collar. Both insert bearings are with spherical O.D.

**RSAPP200, RSBPP200** are rubber cushioned pressed steel pillow blocks. The conductive rubber interliner helps dissipate static and reduce noise and vibration. RSBPP is with RSB cartridge inserts while RSAPP is with RSA inserts.

## Thermoplastic Housed Units

General Information	.....	B76
TP-SUCP200 (Standard Duty)	.....	B77
TP-SUEP200 (Standard Duty)	.....	B78
TP-SUCF200 (Standard Duty)	.....	B79
TP-SUEF200 (Standard Duty)	.....	B80
TP-SUCFL200 (Standard Duty)	.....	B81
TP-SUEFL200 (Standard Duty)	.....	B82
TP-SUCPA200 (Standard Duty)	.....	B83
TP-SUEPA200 (Standard Duty)	.....	B84
TP-SUCT200 (Standard Duty)	.....	B85
TP-SUET200 (Standard Duty)	.....	B86
TP-SUCFB200 (Standard Duty)	.....	B87
TP-SUEFB200 (Standard Duty)	.....	B88
TP-SUCTB200 (Standard Duty)	.....	B89
TP-SUETB200 (Standard Duty)	.....	B90
TP-SSBLF200 (Standard Duty)	.....	B91
TP-SBPY200 & TP-SAPY200 (Light Duty)	.....	B92
Accessories: End-covers, Back seal	.....	B93



TP-SUCP



TP-SUEP



TP-SUCF



TP-SUEF



TP-SUCFL



TP-SUEFL

**TP-SUCP** is a pillow block unit with a corrosion resistant thermoplastic housing and stainless steel bearing insert which offers a high level of corrosion resistance and they are factory lubricated with food grade grease.

**TP-SUEP** is a two-bolt flange unit with a corrosion resistant thermoplastic housing. The stainless steel insert bearing is made out of stainless steel and incorporates with a specially designed concentric collar that provides 360 degrees of shaft contact. It produces a more concentric lock on the shaft compared to other locking styles and it functions very well for high speed applications. It is pre-filled with food grade grease for food processing applications.



TP-SUCPA



TP-SUEPA



TP-SUCT



TP-SUET



TP-SUCFB



TP-SUETB



TP-SUCTB



TP-SUETB



TP-SSBLF



TP-SAPY



TP-BS



TP-SBPY



TP-OC



TP-CC

**TP-SUCF** is a four-bolt flange unit with a corrosion resistant thermoplastic housing and stainless steel bearing insert which offers a high level of corrosion resistance and they are factory lubricated with food grade grease.

**TP-SUEF** is a four-bolt flange unit with a corrosion resistant thermoplastic housing. The stainless steel insert bearing is made out of stainless steel and incorporates with a specially designed concentric collar that provides 360 degrees of shaft contact. It produces a more concentric lock on the shaft compared to other locking styles and it functions very well for high speed applications. It is pre-filled with food grade grease for food processing applications.

**TP-SUCFL** is a two-bolt flange unit with a corrosion resistant thermoplastic housing stainless steel bearing insert which offers a high level of corrosion resistance and they are factory lubricated with food grade grease.

**TP-SUEFL** is a two-bolt flange unit with a corrosion resistant thermoplastic housing. The stainless steel insert bearing is made out of stainless steel and incorporates with a specially designed concentric collar that provides 360 degrees of shaft contact. It produces a more concentric lock on the shaft compared to other locking styles and it functions very well for high speed applications. It is pre-filled with food grade grease for food processing applications.

**TP-SUCPA** is a tapped-base pillow block unit with a corrosion resistant thermoplastic housing and stainless steel bearing insert which offers a high level of corrosion resistance and they are factory lubricated with food grade grease.

**TP-SUEPA** is a tapped based pillow block unit with a corrosion resistant thermoplastic housing. The stainless steel insert bearing is made out of stainless steel and incorporates with a specially designed concentric collar that provides 360 degrees of shaft contact. It produces a more concentric lock on the shaft compared to other locking styles and it functions very well for high speed applications. It is pre-filled with food grade grease for food processing applications.

**TP-SUCT200** is a take up unit with a corrosion resistant thermoplastic housing and stainless steel bearing insert which offers a high level of corrosion resistance and they are factory lubricated with food grade grease.

**TP-SUET200** is a take up unit with a corrosion resistant thermoplastic housing. The stainless steel insert bearing is made out of stainless steel and incorporates with a specially designed concentric collar that provides 360 degrees of shaft contact. It produces a more concentric lock on the shaft compared to other locking styles and it functions very well for high speed applications. It is pre-filled with food grade grease for food processing applications.

**TP-SUCFB** is a three-bolt flange bracket unit with a corrosion resistant thermoplastic housing and stainless steel bearing insert which offers a high level of corrosion resistance and they are factory lubricated with food grade grease.

**TP-SUEFB** is a three-bolt flange bracket unit with a corrosion resistant thermoplastic housing. The stainless steel insert bearing is made out of stainless steel and incorporates with a specially designed concentric collar that provides 360 degrees of shaft contact. It produces a more concentric lock on the shaft compared to other locking styles and it functions very well for high speed applications. It is pre-filled with food grade grease for food processing applications.

**TP-SUCTB200** is a tapped-base pillow block unit with a corrosion resistant thermoplastic housing and stainless steel bearing insert which offers a high level of corrosion resistance and they are factory lubricated with food grade grease. Housing TB with inch-based dimensions.

**TP-SUETB200** is a tapped-base pillow block unit with a corrosion resistant thermoplastic housing. The stainless steel insert bearing is made out of stainless steel and incorporates with a specially designed concentric collar that provides 360 degrees of shaft contact. It produces a more concentric lock on the shaft compared to other locking styles and it functions very well for high speed applications. It is pre-filled with food grade grease for food processing applications. Housing TB with inch-based dimensions.

**TP-SUCLF200** is a compact and lightweight two-bolt flange unit with a corrosion resistant thermoplastic housing and stainless steel bearing insert which offers a high level of corrosion resistance and they are factory lubricated with food grade grease.

**TP-SBPY200,TP-SAPY200** are special designed, compact and lightweight thermoplastic pillow block with either option of a standard, Zinc coated ,black oxidized chrome steel or stainless steel insert bearings. Applicable only with narrow inner ring inserts, setscrew or eccentric collar locking. Good for limited installation space.

## Water-Proof Thermoplastic Housed Units



WP-P



WP-FL



WP-F



WP-CC



WP-BS



WP-OC

WP-SSBP200 .....	B94
WP-SSBFL200 .....	B95
WP-SSBF200 .....	B96
Accessories:End-Covers,Back seal .....	B97

**WP-SSBP** is a water-proof pillow block unit with a corrosion resistant thermoplastic housing and stainless steel bearing insert. Thanks to its specially designed sealing system, this units offer an excellent resistance to food & liquid contaminants, adapt to frequent washdowns. Chrome steel insert bearing is also available to meet your budget and performance needs.

**WP-SSBFL** is a water-proof 2-bolt flange unit with a corrosion resistant thermoplastic housing and stainless steel bearing insert. Thanks to its specially designed sealing system, this units offer an excellent resistance to food & liquid contaminants, adapt to frequent washdowns. Chrome steel insert bearing is also available to meet your budget and performance needs.

**WP-SSBF** is a water-proof 2-bolt flange unit with a corrosion resistant thermoplastic housing and stainless steel bearing insert. Thanks to its specially designed sealing system, this units offer an excellent resistance to food & liquid contaminants, adapt to frequent washdowns. Chrome steel insert bearing is also available to meet your budget and performance needs.

Back Seal(BS), Close Cap(CC) and Open Cap(OC) can be ordered separately. Ordering example WP-BS205, WP-CC205,WP-OC205. **Anti-Bacteria Protection Series is also available upon request(see more details on page20).**



SSUCP..ESB



SSUCP..A



SSUEP..ESB



SSUCP..A/HP



SSUCF..EHB  
SSUCF..ESB



SSUCF..A



SSUEF..EHB  
SSUEF..ESB



SSUCF..EHB+OC

## All Stainless Steel Bearing Units

General Information .....	B98
SSUCP200ESB (Standard Duty) .....	B99
SSUCP200A (Standard Duty) .....	B100
SSUEP200ESB (Standard Duty) .....	B101
SSUCF200EHB SSUCF200ESB (Standard Duty) .....	B102
SSUCF200A (Standard Duty) .....	B103
SSUEF200EHB SSUEF200ESB (Standard Duty) .....	B104
SSUCFL200EHB SSUCFL200ESB (Standard Duty) .....	B105
SSUCFL200A (Standard Duty) .....	B106
SSUEFL200EHB SSUEFL200ESB (Standard Duty) .....	B107
SSUCT200 (Standard Duty) .....	B108
SSUET200 (Standard Duty) .....	B109
SSUCFC200 (Standard Duty) .....	B110
SSUEFC200 (Standard Duty) .....	B111
SSUCPA200 (Standard Duty) .....	B112
SSUCPA200A (Standard Duty) .....	B113
SSUEPA200A (Standard Duty) .....	B114
SSUCFB200A (Standard Duty) .....	B115
SSUEFB200A (Standard Duty) .....	B116



SSUCFL..EHB  
SSUCFL..ESB



SSUCFL..A



SSUCT



SSUEFL..ESB



SSUET



SSUCFC



SSUEPA..A



SSUEFC



SSUCPA



SSUCPA..A



SSUCFB..A



SSUEFB..A



SSUCP..A  
SSUCP..ESB



SSUCP..EHB



SSUCF..A  
SSUCF..ESB



SSUCF..EHB+BS



SSUCFL..A  
SSUCFL..ESB



SSUCFL..EHB

**SSUCP** is a pillow block unit that is made entirely out of stainless steel components for the highest level of corrosion resistance for a mounted bearing unit. It is pre-filled with food grade grease for food processing applications. Housing available with European and American style. Suffix ESB=European style, solid base. A=American style.

**SSUEP** is a pillow block unit that is made entirely out of stainless steel components for the highest level of corrosion resistance for a mounted bearing units. The stainless steel insert bearing incorporates with a specially designed concentric collar that provides 360 degrees of shaft contact. It produces a more concentric lock on the shaft compared to other locking styles and it functions very well for high speed applications. It is pre-filled with food grade grease for food processing applications.

**SSUCF** is a four-bolt flange unit that is made entirely out of stainless steel components for the highest level of corrosion resistance for a mounted bearing unit. It is also pre-filled with food grade grease for food processing applications. Housing available with European and American style. Suffix ESB=European style, solid base. EHB=European style, hollow base. A=American style.

**SSUEF** is a four-bolt flange unit that is made entirely out of stainless steel components for the highest level of corrosion resistance for a mounted bearing units. The stainless steel insert bearing incorporates with a specially designed concentric collar that provides 360 degrees of shaft contact. It produces a more concentric lock on the shaft compared to other locking styles and it functions very well for high speed applications. It is pre-filled with food grade grease for food processing applications.

**SSUCFL** is a two-bolt flange unit that is made entirely out of stainless steel components for the highest level of corrosion resistance for a mounted bearing unit. It is also pre-filled with food grade grease for food processing applications. Housing available with European and American style. Suffix ESB=European style, solid base. EHB=European style, hollow base. A=American style.

**SSUEFL** is a two-bolt flange unit that is made entirely out of stainless steel components for the highest level of corrosion resistance for a mounted bearing units. The stainless steel insert bearing incorporates with a specially designed concentric collar that provides 360 degrees of shaft contact. It produces a more concentric lock on the shaft compared to other locking styles and it functions very well for high speed applications. It is pre-filled with food grade grease for food processing applications.

**SSUCT** is a wide-slot take-up unit that is made entirely out of stainless steel components for the highest level of corrosion resistance for a mounted bearing unit. It is pre-filled with food grade grease for food processing applications.

**SSUET** is a wide-slot take-up unit that is made entirely out of stainless steel components for the highest level of corrosion resistance for a mounted bearing unit. The stainless steel insert bearing incorporates with a specially designed concentric collar that provides 360 degrees of shaft contact. It produces a more concentric lock on the shaft compared to other locking styles and it functions very well for high speed applications. It is pre-filled with food grade grease for food processing applications.

**SSUCFC** is a four-bolt flange cartridge units that is made entirely out of stainless steel components for the highest level of corrosion resistance for a mounted bearing unit. It is also pre-filled with food grade grease for food processing applications.

**SSUEFC** is a four-bolt flange bartridge units that is made entirely out of stainless steel components for the highest level of corrosion resistance for a mounted bearing unit. The stainless steel insert bearing incorporates with a specially designed concentric collar that provides 360 degrees of shaft contact. It produces a more concentric lock on the shaft compared to other locking styles and it functions very well for high speed applications. It is pre-filled with food grade grease for food processing applications.

**SSUCPA** is a tapped-base pillow block unit with threaded bolt holes in the bottom of the housings. It is made entirely out of stainless steel components for the highest level of corrosion resistance for a mounted bearing unit. It is ideal for exact unit positioning and limited space applications. It is pre-filled with food grade grease for food processing applications. Inch-based housing SPA..A is also available.

**SSUEPA..A** is a tapped-base pillow block unit with threaded holes in the bottom of the housings. It is made entirely out of stainless steel components for the highest level of corrosion resistance for a mounted bearing units. It's ideal for exact unit positioning and limited space applications. The stainless steel insert bearing incorporates with a specially designed concentric collar that provides 360 degrees of shaft contact. It produces a more concentric lock on the shaft compared to other locking styles and it functions very well for high speed applications. It is pre-filled with food grade grease for food processing applications.

**SSUCFB..A** is a flange bracket unit that is made entirely out of stainless steel components for the highest level of corrosion resistance for a mounted bearing unit. It is ideal for exact unit positioning and limited space applications. It is pre-filled with food grade grease for food processing applications.

**SSUEFB..A** is a flange bracket unit that is made entirely out of stainless steel components for the highest level of corrosion resistance for a mounted bearing unit. The stainless steel insert bearing incorporates with a specially designed concentric collar that provides 360 degrees of shaft contact. It produces a more concentric lock on the shaft compared to other locking styles and it functions very well for high speed applications. It is pre-filled with food grade grease for food processing applications.

## All Stainless Steel Silver Series

SU000 & SK000 (Light Duty) .....	B117
SSUP000 & SSUFL000 (Light Duty) .....	B118
SSKP000 & SSKFL000 (Light Duty) .....	B119



SU



SK



SSUP



SSKP



SSUFL



SSKFL

### With setscrews

#### SK...Stainless steel

SK bearing has the same features that K bearing does and is constructed of stainless steel material and is used as part of our stainless steel Silver Series. The stainless material is superior in corrosion resistance compared to the normal Silver series insert.

### With eccentric locking collar

#### SU...Stainless steel

SU bearing has the same features that U bearing does and is constructed of stainless steel material and is used as part of our stainless steel Silver Series. The stainless steel material is superior in corrosion resistance compared to normal Silver Series insert.

**SSUP** is a light duty stainless pillow block unit that is part of the stainless steel Silver Series. It has a stainless housing for a high level of corrosion resistance and it is capable of accepting end covers to increase contamination resistance. With eccentric collar locking.

**SSUFL** is a light duty stainless two-bolt flange unit that is part of the stainless steel Silver Series. It has a stainless housing for a high level of corrosion resistance and it is capable of accepting end covers to increase contamination resistance. With eccentric collar locking.

**SSKP** is a light duty stainless pillow block unit that is part of the stainless steel Silver Series. It has a stainless housing for a high level of corrosion resistance and it is capable of accepting end covers to increase contamination resistance. With setscrew locking.

**SSKFL** is a light duty stainless two-bolt flange unit that is part of the stainless steel Silver Series. It has a stainless housing for a high level of corrosion resistance and it is capable of accepting end covers to increase contamination resistance. With setscrew locking.

## Bearing Inserts

UC200 & UC200 L3 & CUC200 (Standard Duty) .....	B120
UC300 (Heavy Duty) .....	B121
UCX00 & UCX00 L3 (Medium Duty) .....	B122
NA200 & NA200 L3 (Standard Duty) .....	B123
UE200 (Standard Duty) .....	B124
UER200 (Standard Duty) .....	B125
SA200 & CSA200 ((Light Duty) .....	B126
SB200 & CSB200 ((Light Duty) .....	B127
UD200 (Standard Duty)) .....	B128
UK200 (Standard Duty) .....	B129
SER200 (Standard Duty) .....	B130



UC2  
UCX  
UC3



UC2..L3  
UCX..L3



BUC



CUC

### With set screws, wider inner ring

#### UC2 (UCX, UC3) ...L3

This deep groove ball bearing insert is with rubber seal and metal slinger comes pre-lubricated with lithium based grease. This insert incorporates a wide inner ring design with two setscrews spaced at 120 degrees apart to affix the insert to the shaft. The setscrew locking design with wide inner ring is the most common insert and can be used in a wide variety of applications. The spherical O.D. of the insert has both a grease groove as well as grease holes to re-lubricate the insert when needed. The UC insert can be ordered with a triple lip seal by using a suffix L3 as designation. **CUC** is with cylindrical O.D.



NA



NA...L3



UE



UER



SA



CSA



SB



CSB



UD



UK



SER



Custom-made Bearings

**With eccentric locking collar, wider inner ring  
NA2,NA2..L3**

This deep grooved ball bearing insert with rubber seal and metal slinger comes pre-lubricated with lithium based grease. This insert incorporates a wide inner ring design with an eccentric locking collar for securing the insert to the shafting. The insert has grease holes and a grease groove on the outer ring for re-lubrication. The spherical O.D. allows this insert to be installed in a wide range of housings. When the insert is affixed to the shaft, the eccentric collars' elliptical shape meshes with the elliptical surface of the inner ring. The NA insert can be ordered with a triple lip seal by using a suffix L3 as designation.

The turning of the inner ring locks the shafting in place and a setscrew is tightened to keep it from slipping.

**With concentric locking collar, wider inner ring  
UE2**

The LDK **Accu-Grip**® bearing features a concentric locking collar that allows for 360 degrees of locking contact. This deep groove ball bearing insert uses a grooved inner ring with a collar that incorporates a hex screw that is tightened to squeeze equally against the inner ring. The **Accu-Grip**® insert has a spherical O.D. and has grease grooves and grease holes for re-lubricating. The roundness of the ball path created by the **Accu-Grip**® bearing results in better operation and longer life. The collar is designed to prevent shaft marring and burring that can occur with other locking options. Black oxidation treatment is given to the entire bearing as standard. Raceway coating could be removed as an option for a better rotating, noise and vibration level.

**With concentric locking collar, cylindrical O.D., wider inner ring, locating snap ring and snap ring groove  
UER2**

UER has a cylindrical O.D with grease groove and grease hole outer ring for re-lubrication. it has a snap ring on the outer ring to help make locating the bearing a simple task during installation. The roundness of the ball patch created by the **Accu-Grip**® bearing results in better operation and longer life. The collar is designed to prevent shaft marring and burring that can occur with other locking options. Black oxidation treatment is given to the entire bearing as standard. Raceway coating could be removed as an option a better rotating, noise and vibration level. Black oxidation treatment is given to the entire bearing as standard. Raceway coating could be removed as an option for a better rotating, noise and vibration level.

**With eccentric locking collar, narrow inner ring  
SA2**

This deep grooved ball bearing unit with spherical O.D. is the same as the SB type insert, but uses an eccentric locking collar for affixing to the shaft. This insert comes from the factory pre-lubricated with lithium base grease. This bearing can be ordered in either re-lube style or sealed for life. The re-lube style has a grease groove and grease holes on the O.D. while the lubed for life does not. To order lubed for life add suffix "N" as designation. The turning of the inner ring locks the shafting in place and a setscrew is tightened to keep it from slipping. To order this same bearing with a cylindrical O.D use the designation **CSA**.

**With setscrews, narrow inner ring  
SB2**

This is a deep grooved ball bearing insert with spherical O.D. comes from the factory pre-lubricated with lithium based grease. This bearing can be ordered in either re-lube style or sealed for life. The re-lube style has a grease groove and grease holes on the O.D. while the lubed for life does not. The SB series has the same load ratings as a UC bearing but has a narrow inner ring, and uses a one piece seal and slinger design rather than a separate seal and slinger. This insert affixes to the shafting using two setscrews at 120 degrees apart. To order this same bearing with a cylindrical O.D. use the designation **CSB**.

**Flush back on two sides  
UD2**

The UD series is a non-extending inner ring insert with a spherical outer-diameter which allows it to be mounted in a traditional housing. The bore tolerance is more precise than typical mounted bearings so press-fit shaft mounting can be accomplished.

**With adapter sleeves, wider inner ring and tapered bore  
UK2 (UK3)**

This deep grooved ball bearing insert with rubber seal and metal slinger comes pre-lubricated with lithium based grease. The UK series incorporates a tapered inner ring and uses corresponding adapters to determine the bore size and affix it to the shaft. The UK series is perfect for applications where shock load can damage other locking devices. The tapered bore with adapter provides true 360 degree shaft contact that runs the entire length of the inner ring. The spherical O.D. has a grease groove and grease holes for relubrication. The insert and adapter come as two separate items and must be ordered separately.

**With setscrews, cylindrical O.D., wider inner ring, locating snap ring and snap ring groove  
SER2**

This deep groove ball bearing insert with a rubber seal and metal slinger come pre-lubricated with lithium base grease. The SER series has a cylindrical O.D. with grease groove and grease holes outer ring for re-lubrication. The SER series uses two setscrews at 120 degrees apart to affix it to the shafting. The SER bearings have a snap ring on the outer ring to help make locating the bearing a simple task during installation.

## Corrosion Resistant Bearing Inserts

SUC200 & SUC200 L3 (Standard Duty) .....	B131
SUE200 (Standard Duty) .....	B132
SUER200 (Standard Duty) .....	B133
SSB200 (Light Duty) .....	B134
SSA200 (Light Duty) .....	B135
SNA200 & SNA200 L3 (Standard Duty) .....	B136
SUK200 (Standard Duty) .....	B137
SSER200 (Standard Duty) .....	B138



SUC



SUCX



SUE



SUER



SSB



SSA



SNA



SUK



SSER



BUC  
BLACKOXIDE

### With setscrews, wider inner ring SUC,SUC L3...Stainless steel series

SUC series has the same design and dimensions as a standard UC insert but is constructed of 440C equivalent grade stainless steel for wash down and other corrosive environments. These inserts come with food grade grease as a standard, and mainly used in food, pharmaceutical, fertilizer and other demanding applications. The SUC insert can be ordered with a triple lip seal by using a suffix L3 as designation.

### With concentric locking collar, wider inner ring SUE...Stainless steel series

SUE series has the same design and dimensions as a standard UE insert but is constructed of 440C equivalent grade stainless steel for wash down and other corrosive environments. These inserts come with food grade grease as a standard, and mainly used in food, pharmaceutical, fertilizer and other demanding applications.

### With concentric locking collar, cylindrical O.D., wider inner ring, locating snap ring and snap ring groove SUER...Stainless steel series

SUER series has the same design and dimensions as a standard UER insert but is constructed of 440C equivalent grade stainless steel for wash down and other corrosive environments. These inserts come with food grade grease as a standard, and mainly used in food, pharmaceutical, fertilizer and other demanding applications.

### With setscrews, narrow inner ring SSB...Stainless steel series

SSB series has the same design and dimensions as a standard SB insert but is constructed of 440C equivalent grade stainless steel for wash down and other corrosive environments. These inserts come with food grade grease as a standard, and mainly used in food, pharmaceutical, fertilizer and other demanding applications.

### With eccentric locking collar, narrow inner ring SSA...Stainless steel series

SSA series has the same design and dimensions as a standard SA insert but is constructed of 440C equivalent grade stainless steel for wash down and other corrosive environments. These inserts come with food grade grease as a standard, and mainly used in food, pharmaceutical, fertilizer and other demanding applications.

### With eccentric locking collar, wider inner ring SNA,SNA2..L3...Stainless steel series

SNA series has the same design and dimensions as a standard NA insert but is constructed of 440C equivalent grade stainless steel for wash down and other corrosive environments. These inserts come with food grade grease as a standard, and mainly used in food, pharmaceutical, fertilizer and other demanding applications. The SNA insert can be ordered with a triple lip seal by using a suffix L3 as designation.

### With adapter sleeves, wider inner ring and tapered bore SUK2...Stainless steel series

SUK series has the same design and dimensions as a standard UK insert but is constructed of 440C equivalent grade stainless steel for wash down and other corrosive environments. These inserts come with food grade grease as a standard, and mainly used in food, pharmaceutical, fertilizer and other demanding applications.

### With setscrews, cylindrical O.D., wider inner ring, locating snap ring and snap ring groove SSER2...Stainless steel series

SSER series has the same design and dimensions as a standard SER insert but is constructed of 440C equivalent grade stainless steel for wash down and other corrosive environments. These inserts come with food grade grease as a standard, and mainly used in food, pharmaceutical, fertilizer and other demanding applications.

## Agricultural/Farm Implement Bearings

Round Bore and Square Bore .....	B139
Hex Bore .....	B140
Disk Harrow Units .....	B141



Round Bore



Square Bore



Hex Bore



Disk Harrow Units

**Round Bore & Square Bore** is designed for environments where severe contamination is present, such as agricultural tillage equipment. Specially designed triple lip seal provides effective protection against loss of lubricant and entrance of wet or abrasive contaminants. Available with lubrication-required and lubrication-free style.

**Hex Bore** is designed to be used for outer or inner ring rotation in low-speed, moderately-loaded applications, primarily in agricultural implements and conveyors. Tolerances of the hex bore are suitable for mounting on cold rolled hex shafting. Main advantage is ease of mounting. Except for axial positioning by adjacent parts, no collars, setscrews or other locking devices are required to lock the inner ring to the hex shaft.

**Disk Harrow Units** – This unit incorporates a triple lips sealed bearing mounted in two stampings. Available in two basic size groups, one incorporating a 209 and the other a 211 bearing. Both size groups offer these features:

- Dynamic alignment capability ( $\pm 3^\circ$ ).
- Shroud effect from close clearance of stamping to inner ring.
- Relubrication.
- One unit piece for ease of handling and assembly.
- Fitting flange mates with outer ring milled recess, preventing possibility of outerring circumferential movement.



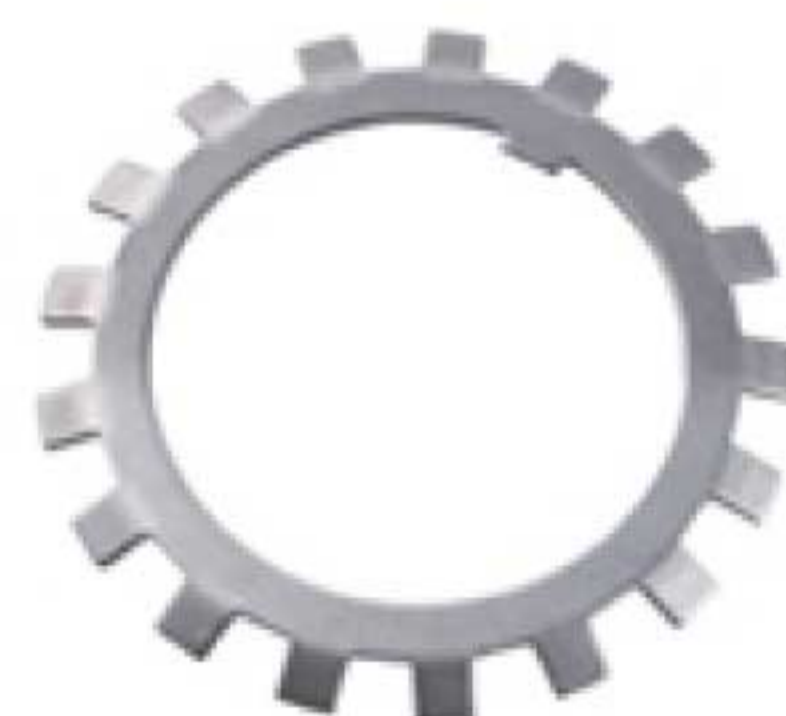
H  
HE  
HA



AH  
AHX



N  
AN  
KM



MB

## Adapter Sleeves

H200 & H300 & H2300 Series .....	B142
H3000 & H3100 & H3200 Series .....	B143
AH/AHX200(300,2300,3000) Series .....	B144
AH/AHX2200(3100,3200),AN/KM Series .....	B145
MB & AL/MS & ALL/MS Series .....	B146

### H2,H3,H23,H32 Series

The H2,H3,H23 adapter series are for use in the tapered-bore UK series. Proper assembly of adapter sleeves can create excellent holding power on the shaft.

## Interchange

Housed Unit And Insert Bearing Interchange .....	B147-148
Inch/Metric Conversion Table .....	B149

# LDK<sup>®</sup> 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<sup>®</sup> 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<sup>®</sup> 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.

# LDK<sup>®</sup> Solid-Lube<sup>®</sup> Bearings

Solid-Lube<sup>®</sup> is an oil saturated, polymer material that virtually fills all of the free space in the bearing. The polymer material is molded into the bearing forming very narrow gaps around the rolling elements and raceways, enabling the bearing to rotate freely. The polymer material has a porous structure, with millions of micro-pores, that hold the lubricating oil retained by surface tension. In service, oil is released from the material into the narrow gaps between it and the bearing components, thus providing effective minimum quantity lubrication.

Solid Oil enables bearing lubrication with an even and consistent film of oil. An increase in operating temperature pushes oil toward the surface of the polymer material. This "flow" of oil within the polymer material occurs because the oil has a higher coefficient of thermal expansion than the polymer material and because the viscosity of the oil decreases with increasing temperature. During shutdown, any excess oil is reabsorbed back into the polymer material.



## Benefits of Solid-Lube<sup>®</sup>

LDK bearings with Solid-Lube<sup>®</sup> are designed for use in applications where high levels of moisture and incidental contact with water and other contaminants are real issues. These bearings are also an excellent choice for applications where relubrication is impractical or dangerous.

- **Operating life more than twice as long as conventional grease lubrication, in water or dust-contaminated environments.**
- **Grease-free property with no oil refilling reduce cost of ownership and environment impact.**
- **Resist washout**
- **Virtually eliminates oil leakage**
- **Protects against the ingress of the contaminants**

## Applications

- Steel mill equipment
- Paper mill equipment
- Food processing equipment
- Agriculture equipment
- Liquid crystal display and semiconductor manufacturing equipment
- Cleaning equipment
- Conveying equipment

Available in ball bearing, spherical roller bearing and tapered roller bearing types.

# LDK<sup>®</sup> ACCU-GRIP<sup>®</sup> insert ball bearings with concentric locking collar



**LDK' s Accu-Grip<sup>®</sup> for quieter, smoother, more efficient running bearings under higher radial loads and rotating speeds.**

## **Ture Shaft Centering**

The inner race closes down on the shaft from all sides creating a true shaft centering resulting in even and constant balance.

## **Concentric Locking**

Provides uniform grip of the inner race to the shaft at the leading edge of the locking collar, resulting in lower noise and vibration at higher speeds.

## **Quick and Easy Installation**

Installs in seconds –only one cap screw tighten down, in one position.

## **Shaft Protection**

The concentric locking force significantly reduces the chance of marring or damaging the shaft. Thus significantly reduce fretting corrosion on shaft. For stainless steel Accu-Grip<sup>®</sup> series, due to this feature, it will significantly reduce bacteria and thus it's a better choice for food processing industry which requires high hygeian requirement.

## **More Efficient Fan Balancing**

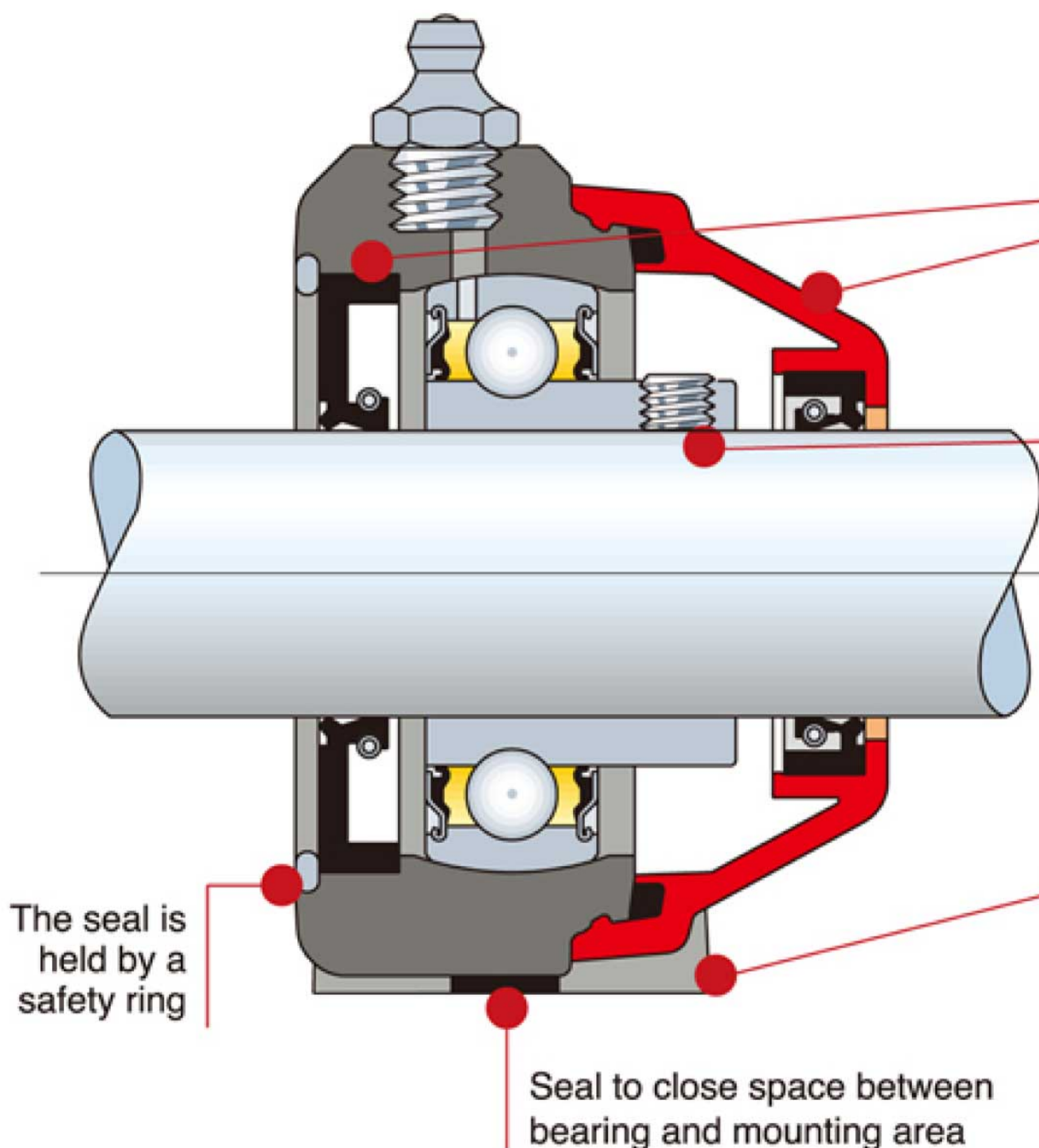
Because the Accu-Grip<sup>®</sup> ball bearing is totally concentric with the shaft, it will not induce vibration into the fan/blower system and will reduce the fan OEM's trim balancing time for high speed applications. No 1 choice for HVAC industry.

## **Reduced Shaft Costs**

The Accu-Grip<sup>®</sup> ball bearing only requires commercial grade shafting tolerances. This can save approximately 40% in shafting costs versus turned, ground and polished shafting.

Available in metric & inch and could be used with any standard duty housing style (cast iron, stainless steel and thermoplastic). A drop in replacement for SealMaster– Skwezloc<sup>®</sup>.

# LDK<sup>®</sup> Thermoplastic Bearing Units Waterproof series



## Waterproof housing

The waterproof sealing system guarantees protection of the bearing from the external environment

## Special Characteristics

Corrosion resistance, Resistance to food & liquid contaminants, adapt to frequent washdowns and Low weight element helps to meet your particular engineering demands.

## Insert Bearings

To be assembled with chrome steel or stainless steel insert bearings to meet your particular budget and performance needs.

# LDK<sup>®</sup> Anti-Bacteria Protection Series



- a. Setscrew, Eccentric locking collar and Concentric locking collar shaft locking.
- b. Housing solid base design: ideal for sanification.
- c. Material:
  - c1. Housing in reinforced plastic polymer (PBT/PA/PP) with anti-bacterial protection additive which is effective against most of common bacterial that may grow in foodstuff like E-coli, Salmonella etc.
  - C2. Protection caps in reinforced PP polymer with anti-bacterial protection additive which is effective against most of common bacterial that may grow in foodstuff like E-coli, Salmonella etc.
  - C3. Seal and O ring in NBR rubber. On request supplied in Viton rubber. Viton material offers high resistance to chemical agents.
  - C4. Grease nipple in stainless steel AISI 304.
  - C5. Seamless bushing on mounting holes in stainless steel AISI 304.
  - C6. Ordering example:
    - Anti-bacteria protection plastic housings with stainless steel insert bearings: ABTP-SUCP205
    - Anti-bacteria protection plastic housings with chrome steel insert bearings: ABWP-SBP205

## STANDARD THERMOPLASTIC MOUNTED UNITS WITH ANTI-BACTERIA PROTECTION

Housing No	Unit No.			
	W / SS insert set screw type		W / SS insert eccentric locking type	
ABTP-P204 ~ 212	ABTP-SUCP204 ~ 212	ABTP-SSBP204 ~ 212	ABTP-SSAP204 ~ 212	ABTP-SNAP204 ~ 212
ABTP-F204 ~ 212	ABTP-SUCF204 ~ 212	ABTP-SSBF204 ~ 212	ABTP-SSAF204 ~ 212	ABTP-SNAF204 ~ 212
ABTP-FL204 ~ 212	ABTP-SUCFL204 ~ 212	ABTP-SSBFL204 ~ 212	ABTP-SSAFL204 ~ 212	ABTP-SNAFL204 ~ 212
ABTP-PA204 ~ 210	ABTP-SUCPA204 ~ 210	ABTP-SSBPA204 ~ 210	ABTP-SSAPA204 ~ 210	ABTP-SNAPA204 ~ 210
ABTP-T204 ~ 210	ABTP-SUCT204 ~ 210	ABTP-SSBT204 ~ 210	ABTP-SSAT204 ~ 210	ABTP-SNAT204 ~ 210
ABTP-FB204 ~ 210	ABTP-SUCFB204 ~ 210	ABTP-SSFB204 ~ 210	ABTP-SSAFB204 ~ 210	ABTP-SNAFB204 ~ 210

**Stainless steel insert with concentric locking collar(SUE) are also available upon request. Ordering example: ABTP-SUEP204.**

## WATER PROOF MOUNTED UNITS WITH ANTI-BACTERIA PROTECTION

Housing No	Unit No.
ABWP-P204 ~ 208	ABWP-SSBP204 ~ 208
ABWP-F204 ~ 208	ABWP-SSBF204 ~ 208
ABWP-FL204 ~ 208	ABWP-SSBFL204 ~ 208



# **LDK<sup>®</sup>** Surface treatment to bearings and housings

## **Surface treatment to insert ball bearings**

### **Zinc plated insert ball bearings**

52100 steel

4-6um thick

Prefix "Z" : Example ZUC205

### **Black Oxide insert ball bearings**

52100 steel ,

Prefix "B" : Example BUC205



### **Electroless Nickel plated bearing units**

Electroless Nickel plated over cast iron, ductile iron and stainless steel

Housings plated with 0.001" thick electroless, high phosphorous(+10%) nickel.

Suffix "NP" Example: P205-NP

# LDK<sup>®</sup> High/Low Temperature Bearing Units

For applications that require bearing units to be used at a higher or lower temperature range than our standard models, LDK offers several options. The standard operating temperature is  $-20^{\circ}\text{C}\sim+120^{\circ}\text{C}$ . LDK offers product and solutions for application with maximum high temperature to  $200^{\circ}\text{C}$  and low temperature to  $-40^{\circ}\text{C}$ . Main features are as follows.

## High/Low Temperature grease

- Soap/Fluoride based, maximum operating temperatures of the grease at  $200^{\circ}\text{C}$ .
- Synthetic polyurea grease, low operating temperatures of the grease at  $-40^{\circ}\text{C}$ .

## Internal Clearance

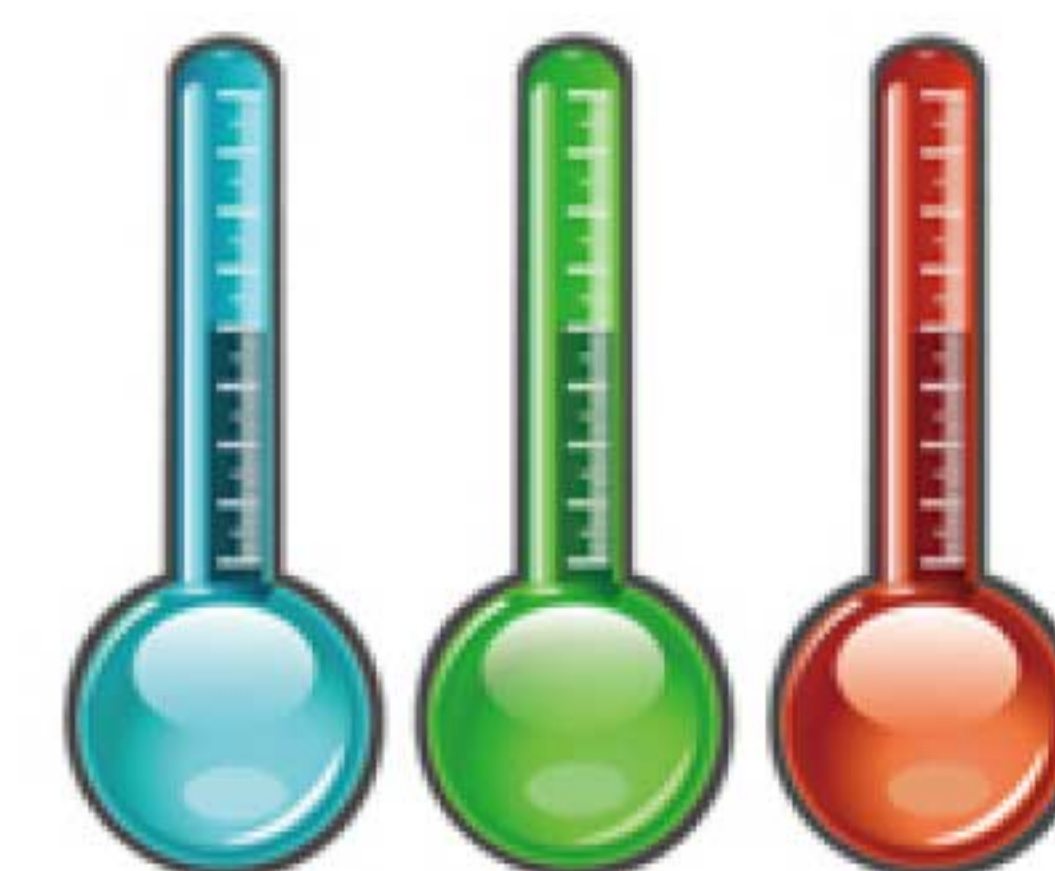
In the manufacturing of ball bearings, it's a standard practice for LDK assemble its rings and balls with a specified internal clearance. In the case of high-temperature inserts, internal clearance is even more important in compensating for thermal expansion of bearings, shafts, and housings. LDK uses an internal clearance standard of C4 on all of its high temp inserts. For low temperature inserts, C0 is recommended.

## Silicon Rubber Seals

Most standard units are supplied with a nitrile rubber seal. Nitrile rubber is an excellent seal at temperatures ranging from  $0\text{-}100^{\circ}\text{C}$ . Soon after that temperature, nitrile rubber starts to breakdown, leaving no sealing element to retain high temperature lubrication. Silicon seals have excellent high temperature stability, exceptional high temperature sticking, resistance to aging, ozone, sunlight and outstanding water repellence. The use of Silicone seals insures that the high temperature lube stays where it belongs, in the bearings! Upon request, fluorine rubber is also available for constant high temperature working environment.

## Special fit and alignment torque for high temp

Bearings and housings are individually matched to achieve an appropriate fit for high temp application. A unique set of tolerances ensure ease of alignment .





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