

EBC *Prime*

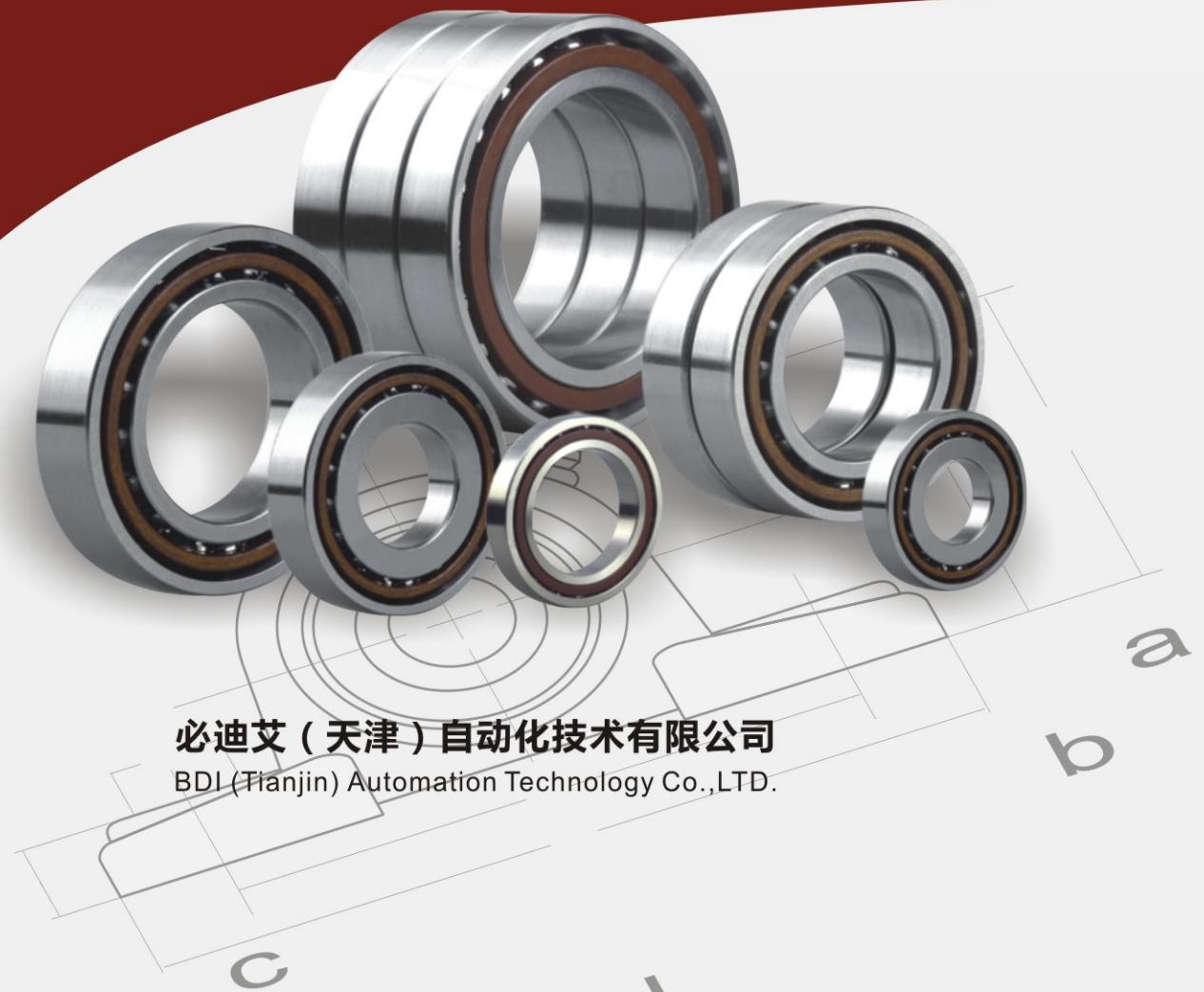
**精密轴承 PB
产品目录 Catalog**

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必迪艾（天津）自动化技术有限公司
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1958年始创于北美的EBC品牌始终秉承质量与服务的宗旨，运用先进的摩擦管理和动力传动专业知识，为欧美客户提供优质的轴承及相应的服务。

EBC Prime产品系列，专注于调心滚子轴承、精密角接触轴承、深沟球轴承及带座轴承的开发，产品全部符合ISO标准和ANSI/ABMA标准。我们通过采用高性能材料及特定热处理工艺，以及优化结构设计，改进润滑和承载性能，不断提升产品质量，以满足客户更高标准的应用需求。

EBC Prime 精密轴承可广泛应用于航空航天、机床、水泵、冶金和纺织等行业，以卓越的性能和稳定的品质赢得世界范围内各种客户的信赖和肯定。

EBC brand, which was founded in North America in 1958, always upholds the tenet of quality and service, and applies advanced friction management and power transmission expertise to provide high-quality bearings and corresponding services for European and American customers.

EBC Prime product series, focusing on the development of self-aligning roller bearings, precision angular contact bearings, deep groove ball bearings and mounted bearings, all products meet ISO standards and ANSI/ABMA standards. Through the use of high-performance materials and specific heat treatment process, as well as optimization of structural design, we improve lubrication and load-carrying performance, and constantly improve product quality to meet the application needs of customers with higher standards.

EBC Prime precision angular contact bearing can be widely used in aerospace, machine tool textile and other industries. With excellent performance and stable quality, it has won the trust and affirmation of various customers all over the world.



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1.1 轴承类型

根据不同的轴承使用工况，需要采用不同的轴承。通常，客户在选用轴承时需要考虑以下因素：

- 精度
- 可用空间
- 载荷
- 系统刚度要求
- 轴向位移调整
- 转速
- 发热

1.1 Bearing Types

Because each application has a different operating condition, bearing selection must be done on a case by case basis. Various factors should be considered when selecting bearings, these include: load carrying capability, speed capability, lifetime and running accuracy. Machine tools require superior performance bearings that to support spindles and screw drives

EBC Prime has developed a very comprehensive range of high-precision bearings for machine tool spindles, and other applications where high demands are placed on accuracy and speed capability. Internal design is state-of-the art, and differs in many ways from that of a standard bearing. The design has been optimized for outstanding speed capability in combination with the highest possible stiffness. When designing a bearing arrangement it is necessary to consider a number of factors, i.e.:

- Accuracy
- Available space
- Load
- Required system rigidity
- Accommodation of axial displacements
- Speeds
- Heat generation

1.2 轴承材料

高精度轴承的性能和可靠性依赖于套圈、滚动体和保持架的材料。

全钢轴承

轴承套圈和滚动体的钢材在硬化后具有良好的疲劳强度和耐磨性。轴承的结构和尺寸稳定性也能满足主轴的工作温度要求。

EBC Prime 高精度轴承套圈和滚动体通常由经过淬火硬化的碳铬钢制成。

1.2 Bearing Materials

The performance and reliability required from high-precision bearings implies the use of adequate materials for rings, rolling elements and cages.

All-steel bearings

Steels used for high-precision bearing rings and rolling elements are capable of being adequately hardened and have high fatigue strength and wear resistance. Moreover they have the structural and dimensional stability to satisfy the spindle operating temperatures.

EBC Prime high-precision bearing rings and rolling elements are generally made of throughhardened carbon chromium steel

混合轴承

机床，尤其是加工中心，主轴转速越高加工效率和精度越高。因此主轴需要更高的转速性能。在全钢制轴承的转速受限时，或者需要更高的刚度和寿命时，混合轴承是良好的选择。混合高精度轴承的内外圈是钢制的，滚动体采用陶瓷（氮化硅Si₃N₄）。



全钢轴承

Hybrid Bearings

Machine tools, especially machining centres, can have higher machining efficiencies and higher machining accuracies when operated at higher speeds. For this reason, there have been ever-greater demands for higher speed performance of their spindle bearings. If the performance required is close to allsteel bearing limits, or if higher rigidity or longer life are needed, hybrid high precision bearings can be used. Hybrid high-precision bearings consist of outer and inner rings made of bearing steel and ceramic (silicon nitride Si₃N₄) rolling elements.



All-steel bearings

✿ 相对全钢轴承混合轴承具有以下优点：

- 低发热
- 陶瓷滚动体密度只有钢制滚动体的40%，因此滚动体的离心力更低。
- 热膨胀率低
- 刚度高，更适用于主轴
- 不易损伤

因此，使用寿命更长。甚至在低速工况也有应用。



混合轴承

✿ Comparing with steel rolling elements, ceramic rolling elements has following benefit :

- Lower heat generation
 - Having density as light as 40% of bearing steel, thus centrifugal forces of rolling elements is reduced.
 - The thermal expansion is lower
 - Having a great rigidity, which is more suitable for machine tools
 - Having better resistance to damage
- Due to these reasons, the service life of the bearings is extended, and it is also used in low-speed condition.

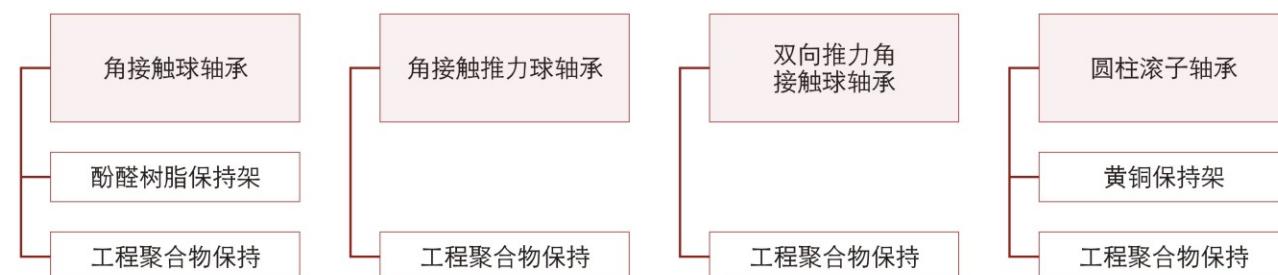


Hybrid Bearing

保持架材料

保持架用于分隔滚动体，使之均匀分布，避免滚动体之间产生摩擦。高精度轴承的保持架材料和形状必须满足其特殊要求。

高精度轴承的保持架受到机械力、离心力和惯性力的影响，还要受到温度和某些润滑剂的化学影响。因此，保持架的设计和材料的选择对于轴承性能和可靠性至关重要。



每种保持架特点

● 酚醛树脂保持架

- 重量轻，离心力小，能抵抗部分润滑剂的化学作用，确保最好的润滑效果。长期工作温度不超过80°C，瞬时工作温度可以达到120°C。

2. 高速能力

● 工程聚合物保持架

- 工作温度高
- 自润滑性好，低摩擦

● 黄铜保持架

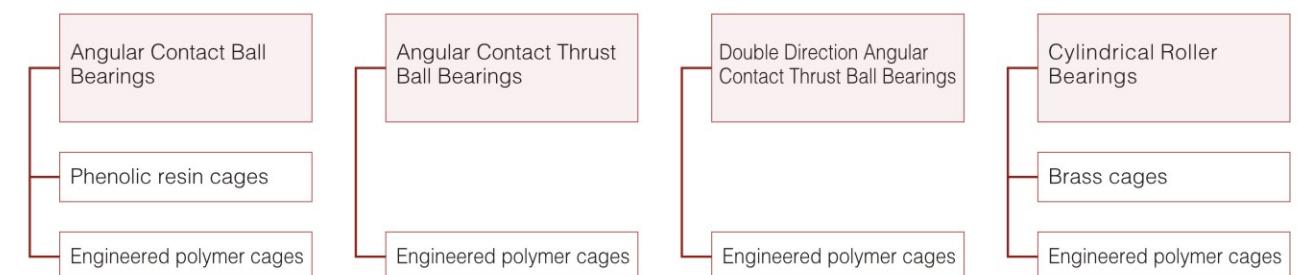
- 耐高温
- 高强度，高负载能力



Material for cages

The main purpose of the cage is to keep the rolling elements at an appropriate distance from each other and to prevent immediate contact between two neighbouring rolling elements, in order to keep friction and consequently heat generation at a minimum. Materials and the shape of cages for high-precision bearings have been developed parallel to the development of the bearings and to the requirements they have to satisfy.

High-precision bearing cages are mechanically stressed by frictional strain and inertia forces. They might also be subjected to chemical action of certain lubricants and the influence of usage temperature. Thus, the design and choice of material are of paramount importance for the performance of the cage, as well as for the operational reliability of the bearing as a whole.



Features of each cage

● Phenolic resin cage

1. This material is lightweight resulting in minimal centrifugal forces and having the capability of retaining part of the lubricant, ensuring optimum lubrication. Fabric reinforced phenolic resin cages should not be used at temperatures exceeding 80 °C for a long term. It can be able to bear the instantaneous temperature of 120 degrees.

2. High-speed capability

● Engineered polymers

- High temperature resistance
- Having good self-lubricating property and lower friction

● Brass holder

- High temperature resistance
- High strength, high load capacity



1.3 空间

由于空间有限，刚度和运行精度要求很高，高精度的应用通常需要低截面的轴承。低截面轴承能够容纳相对较大直径的轴，在相对较小的轴承外形尺寸内提供必要的刚度和转动精度。

应用于机床主轴的角接触球轴承、推力角接触球轴承以及圆柱滚子轴承基本都是9系列和0系列的专用轴承。

因此在给定直径的空间内选择合适的轴承系列的组合，可以满足使用要求。直径空间较小的情况下可以选择9系列的角接触球轴承和圆柱滚子轴承。2系列轴承在新设计中使用较少，但是现有设备仍有使用。

图.1展示了常用机床主轴轴承的截面。

1.3 Available space

High-precision applications generally call for bearings with a low cross section, due to limited space and high requirements for rigidity and running accuracy. Bearings with a low cross section are able to accommodate relatively large diameter shafts to provide the necessary rigidity and turning accuracy within a relatively small bearing envelope.

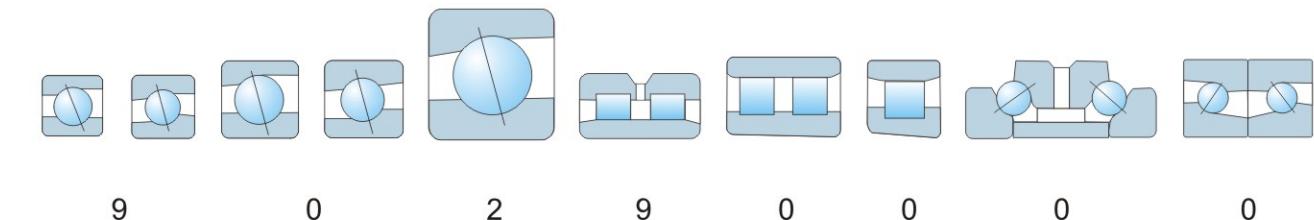
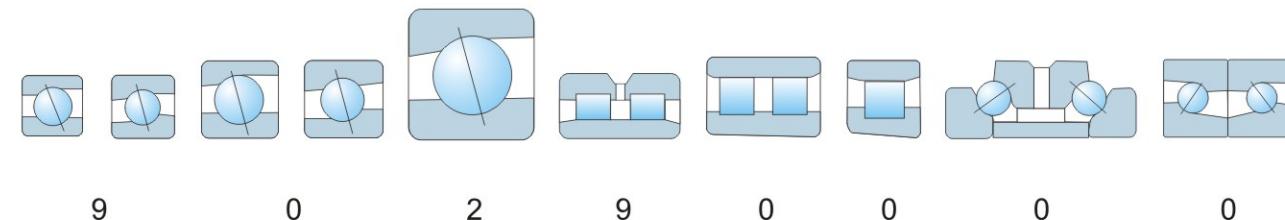
Angular contact ball bearings, cylindrical roller bearings and angular contact thrust ball bearings commonly used in machine tool applications are almost exclusively bearings in the ISO 9 and 0 Diameter Series

By selecting suitable combinations of bearings it is thus possible to achieve an optimum bearing arrangement for specific requirements within the same radial space. For bearing arrangements where less radial space is available, angular contact ball bearings and cylindrical roller bearings belonging to ISO Diameter Series 9 can be used. Angular contact ball bearings to the ISO Diameter Series 2, despite being rarely chosen for new designs, are still common in existing applications.

To illustrate the space required, fig 1 shows cross-sections of the most common machine tool spindle bearings belonging to the different Diameter Series.

图.1 不同尺寸系列的高精度轴承截面

Fig.1 High-precision bearings cross section for different Diameter Series



2.1 主轴角接触球轴承

2.1.1 特点

高精度角接触球轴承

标准系列

- 719XX, 70XX, 72XX 系列
- 2种接触角 15° (C), 25° (AC)
- 2种保持架设计：酚醛树脂保持架 (TA) 或工程聚合物保持架 (TN)，根据需要选择。
- 2种球材料：根据需要可选择钢球或者陶瓷球。
- 根据润滑要求可以选择开式轴承或者带密封轴承。



高速角接触球轴承，HS 系列

高速、高刚度、低发热

- 719XX, 70XX 系列
- 2种接触角： 15° (C), 25° (AC)
- 2种保持架设计：酚醛树脂保持架 (TA) 或工程聚合物保持架 (TN)，根据需要选择。
- 2种球材料：根据需要可选择钢球或者陶瓷球。
- 根据润滑要求可以选择开式轴承或者带密封轴承。



2.1 Angular contact ball bearings for spindle

2.1.1 Features

High Precision Angular Contact Ball Bearings

Standard series

- 719XX, 70XX, 72XX series
- Two kinds of contact angle: 15° (C), 25° (AC)
- Two kinds of cage design: Select either Phenolic (TA) or Plastic (TN) depending on application requirements.
- Two types of ball material: Select either steel or ceramic depending on application requirements.
- Two kinds of design: Select either Open or Sealed depending on lubricating system of machines.

In order to use more conveniently and suitable maintenance machine tool spindles, lubricating the suitable type and amount of arease within the seals.



High-speed Angular Contact Ball Bearings, HS series

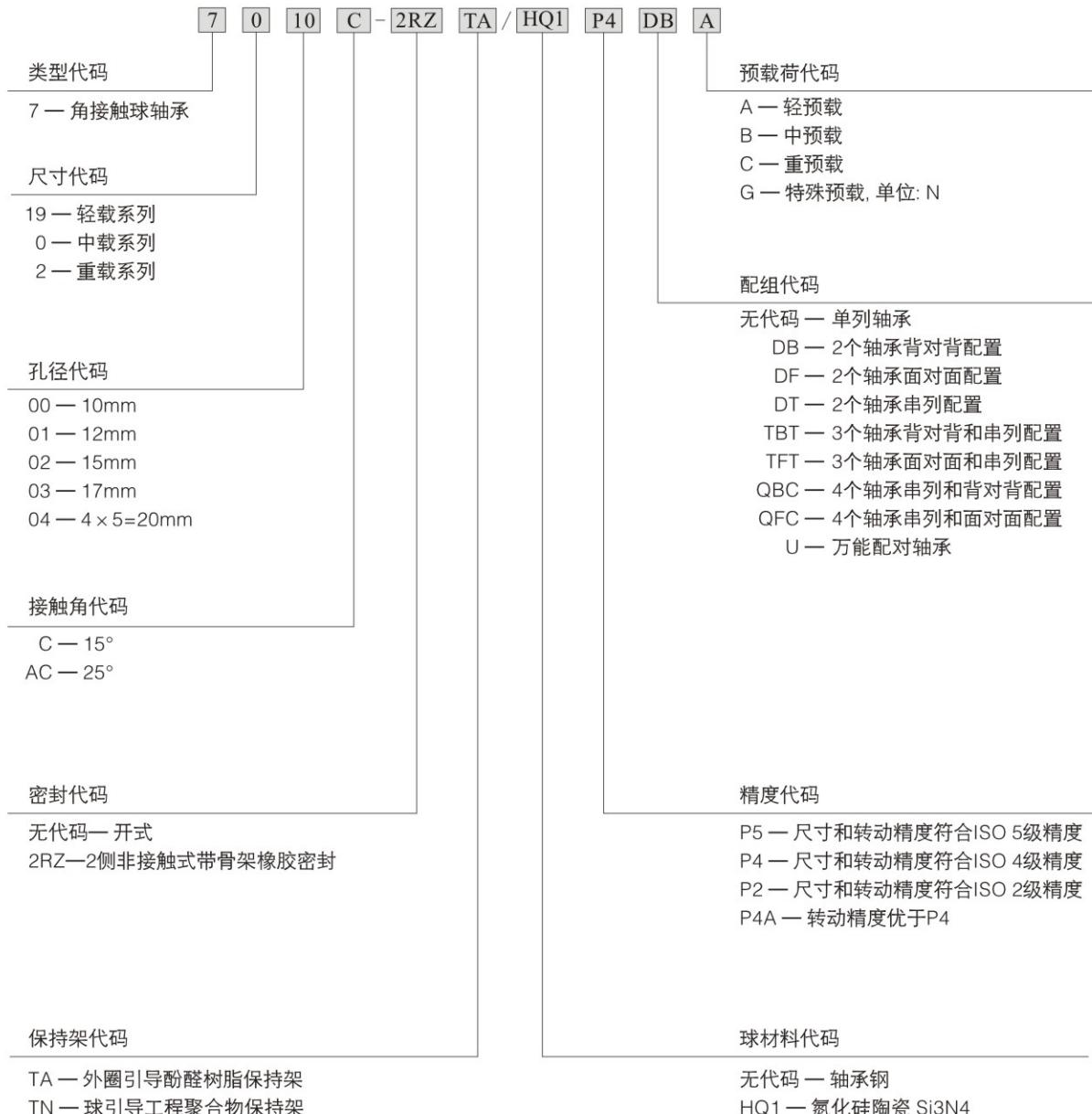
High-speed, Lower Heat generation and High rigidity

- 719XX, 70XX series
 - Two types of contact angle: 15° (C), 25° (AC)
 - Two kinds of cage design: Select either Phenolic (TA) or Engineered polymer (TN) depending on application requirements.
 - Two types of ball material: Select either steel or Ceramic depending on application requirements.
 - Two kinds of design: Select either open or sealed depending on lubricating system of machines.
- In order to use more conveniently and suitable maintenance machine tool spindles, lubricating the suitable type and amount of arease within the seals.



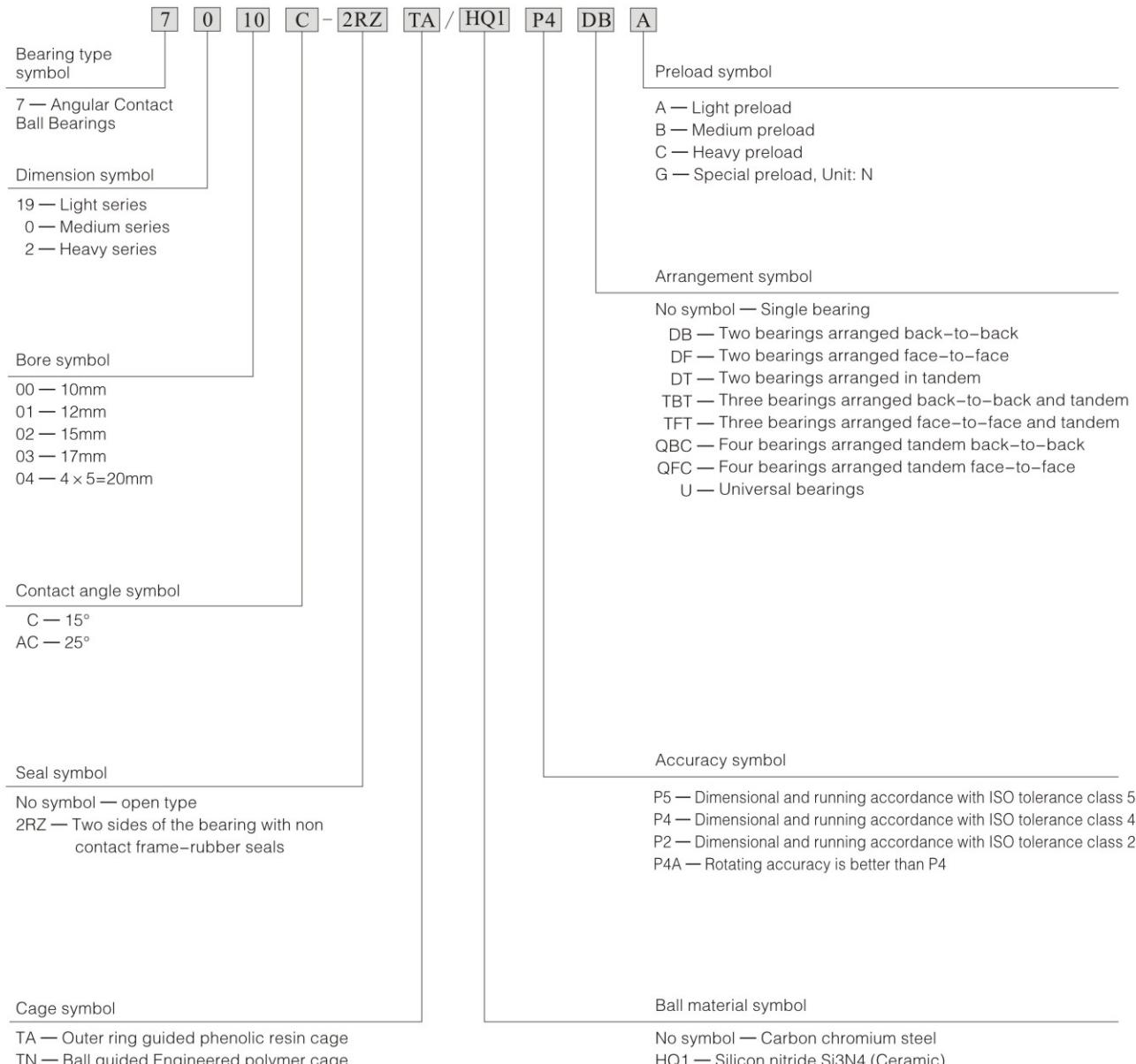
2.1.2 轴承代码

高精度角接触球轴承



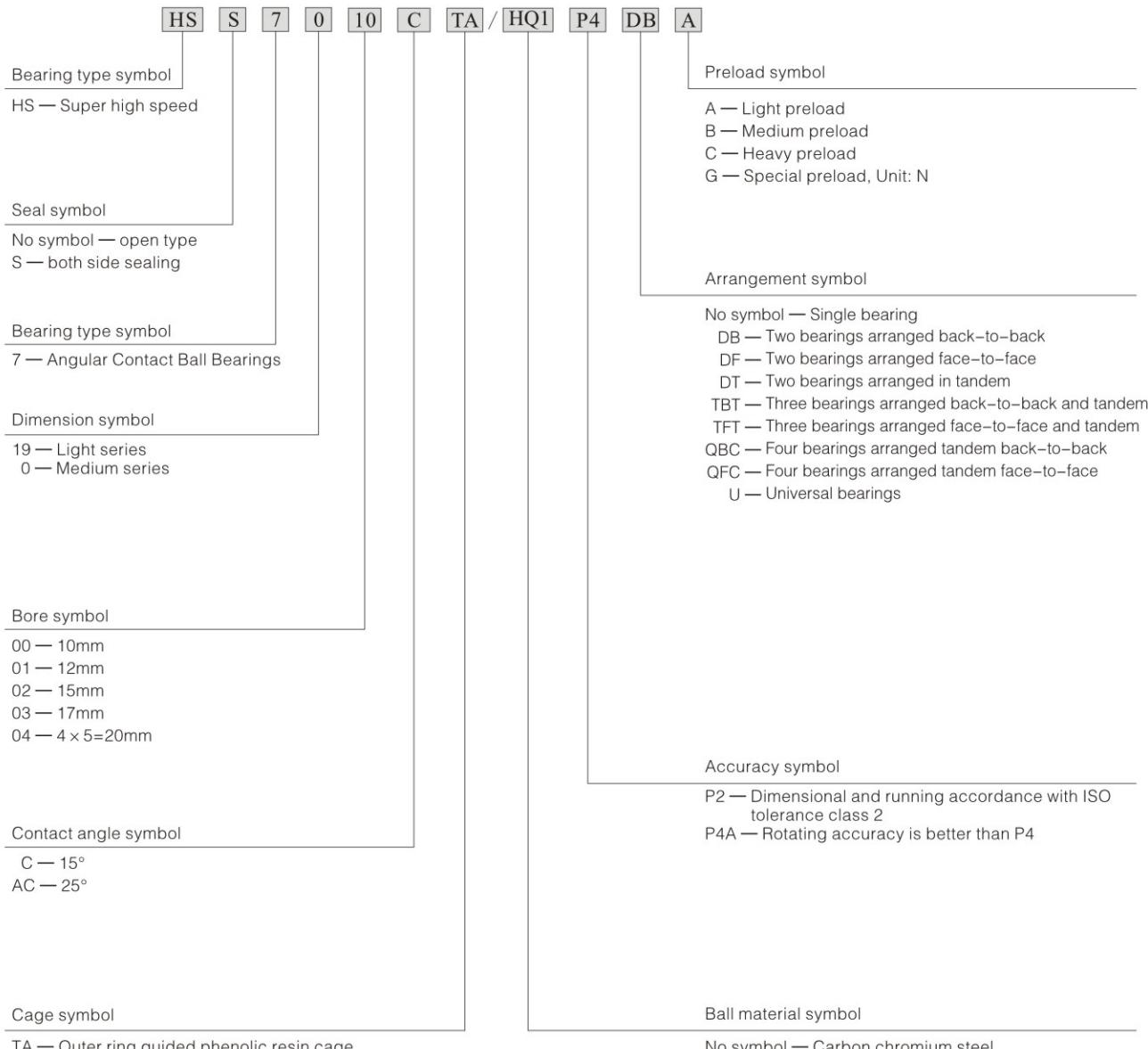
2.1.2 Numbering system

High Precision Angular Contact Ball Bearings



高速角接触球轴承

High-speed Angular Contact Ball Bearings



对照表

品牌	EBC Prime	SKF	FAG	SNFA	NSK
轴承类型代码					
719	719	719	B719	SEB	79
70	70	70	B70	EX	70
72	72	72	B72	E2	72
HS	HS				
接触角代码					
15°	C	CD	C	1	C
25°	AC	ACD	E	3	A5
保持架代码					
酚醛树脂	T(TA)	TA	T(TPA)	CE	T
聚合物	TN	TNH	TVP		TYN
万能配对代码					
单列	U	G	U	U	SU
双列	DU	DG	DU	DU	DU
配组代码					
2个轴承O	DB	DB	DB	DD	DB
2个轴承X	DF	DF	DF	FF	DF
2个轴承T	DT	DT	DT	T	DT
3个轴承T-O	TBT	TBT	TBT	TD	DBD
3个轴承T-X	TFT	TFT	TFT	TF	DFD
3个轴承T	TT		TT		
4个轴承T-O-T	QBC	QBC	QBC	TDT	DBB
4个轴承T-X-T	QFC	QFC	QFC	TFT	DFF
4个轴承3T-O	QBT	QBT	QBT	3TD	DBT
4个轴承3T-X	QFT	QFT	QFT	3TF	DFT
4个轴承T	QT	QT	QT		
预载荷代码					
轻预载	A	A	L	L	L
中预载	B	B	M	M	M
重预载	C	C	H	F	H
精度代码					
P4	P4	P4A	P4	-7	P4
P2	P2	PA9A	P2	-9	P2

Comparison Table of EBC Prime Bearings with other makes

Manufacturer	EBC Prime	SKF	FAG	SNFA	NSK
Bearing type symbol					
719	719	719	B719	SEB	79
70	70	70	B70	EX	70
72	72	72	B72	E2	72
HS	HS				
Contact angle symbol					
15°	C	CD	C	1	C
25°	AC	ACD	E	3	A5
Cage symbol					
Phenolic	T(TA)	TA	T(TPA)	CE	T
Polyamide	TN	TNH	TVP		TYN
Universal arrangement symbol					
single row	U	G	U	U	SU
double row	DU	DG	DU	DU	DU
Arrangement symbol					
2 bearing O	DB	DB	DB	DD	DB
2 bearing X	DF	DF	DF	FF	DF
2 bearing T	DT	DT	DT	T	DT
3 bearing T-O	TBT	TBT	TBT	TD	DBD
3 bearing T-X	TFT	TFT	TFT	TF	DFD
3 bearing T	TT		TT		
4 bearing T-O-T	QBC	QBC	QBC	TDT	DBB
4 bearing T-X-T	QFC	QFC	QFC	TFT	DFF
4 bearing 3T-O	QBT	QBT	QBT	3TD	DBT
4 bearing 3T-X	QFT	QFT	QFT	3TF	DFT
4 bearing T	QT	QT	QT	QT	
Preload symbol					
Light preload	A	A	L	L	L
Medium preload	B	B	M	M	M
Heavy preload	C	C	H	F	H
Accuracy symbol					
P4	P4	P4A	P4	-7	P4
P2	P2	PA9A	P2	-9	P2

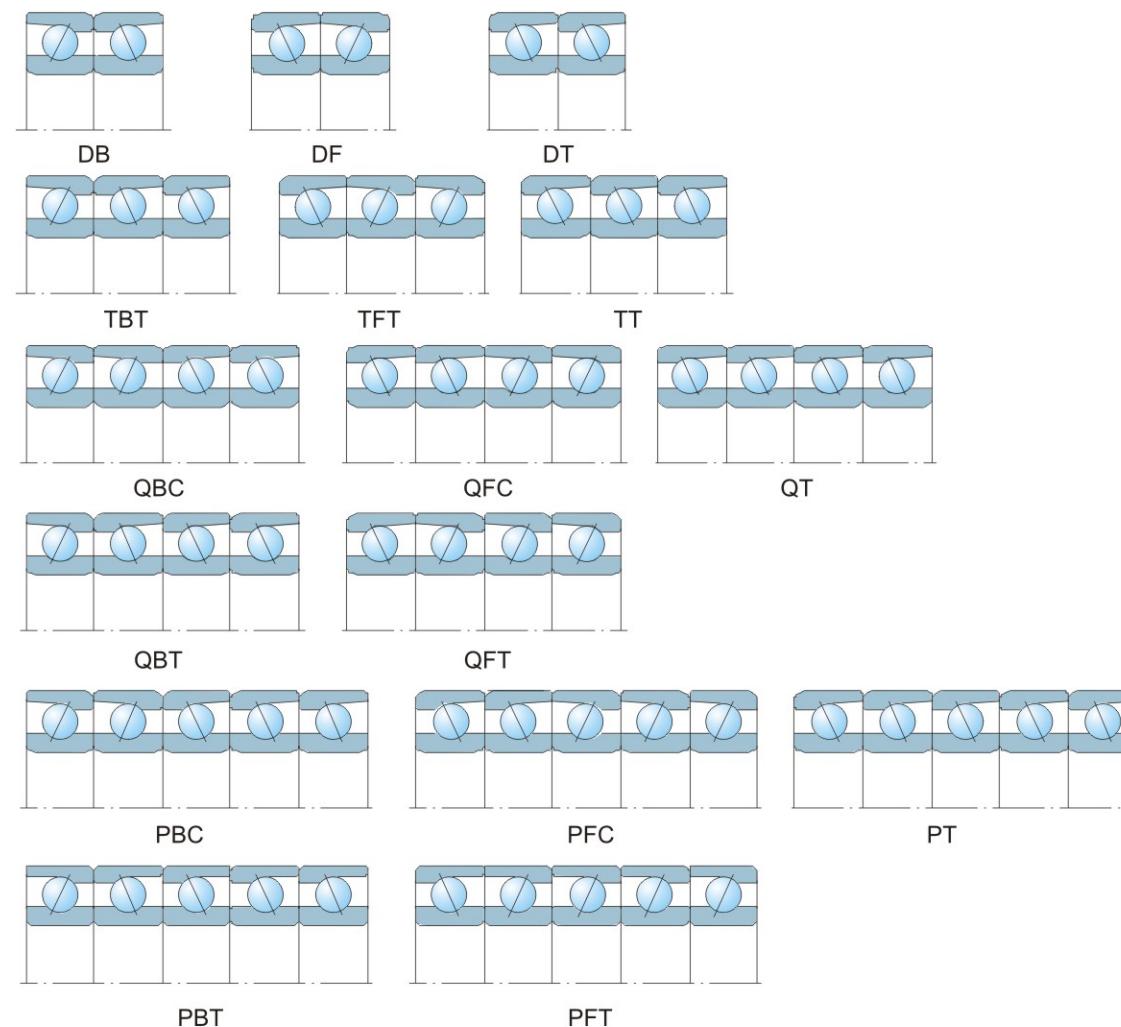
2.1.3 轴承配组

EBC Prime 可以按照客户要求提供2个、3个、4个配组的轴承。成组轴承是配组制造的，安装后能满足精度、预载荷以及载荷平均分配等要求。成组轴承中各个轴承的内、外径之间差值控制在允许公差的1/3之内。

背对背轴承配组，可以承受轴向方向2个方向的受力，但是每个方向只有1个轴承受力。背对背轴承配组，刚度较高，可以抵抗倾覆力矩。

面对面轴承配组同样可以承受轴向方向2个方向的受力，每个方向1个轴承受力。面对面轴承布置可以容许少量偏转。

串列轴承配组，负载线沿轴向方向，径向和轴向负载平均分配配组中每个轴承上。轴承配组只能承受单个方向载荷。对于更高的载荷和刚度要求，可以采用3个或4个轴承的配组，配组中2个或3个是串列的。配组方式见下面图例。



2.1.3 Arrangement

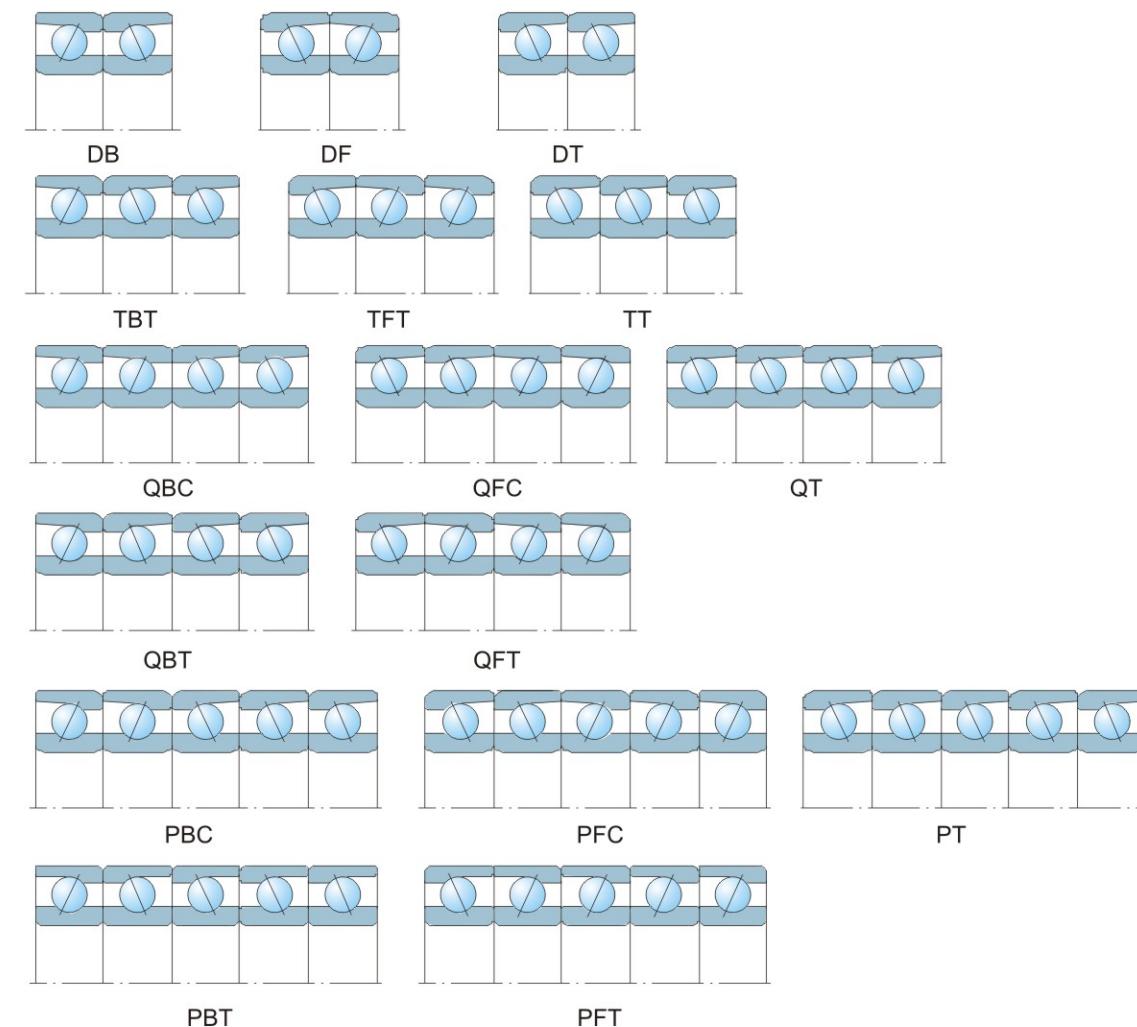
EBC Prime Axial angular contact ball bearings can be supplied as required in complete sets of two, three or four matched bearings in the arrangements

The bearings of a set are matched in production so that when they are mounted immediately adjacent to each other in the prescribed order, a given preload will be obtained or the load will be evenly distributed. The bore and outside diameters of the bearings of a set differ from each other by one third of the permissible diameter tolerance.

In a back-to-back bearing arrangement, the load lines diverge toward the bearing axis. Axial loads acting in both directions can be accommodated, but only by one bearing or bearing set in one direction each. Bearings mounted back-to-back provide a relatively rigid bearing arrangement that can also accommodate tilting moments.

In a face-to-face bearing arrangement, the load lines converge toward the bearing axis. Axial loads acting in both directions can be accommodated, but only by one bearing or bearing set in one direction each. Face-to-face arrangements can accommodate small amounts of deflection.

In a tandem bearing arrangement, the load lines are parallel so that radial and axial loads are shared equally by the bearings in the set. The bearing set can only accommodate axial loads acting in one direction. For higher loads or requirements for high rigidities, bearings are assembled and installed in sets of 3 or 4. 2 or 3 of them are installed in Tandem arrangement.



标记

配组轴承外圈外表面上的“V”形标记指示了内圈轴向受力方向，见图2。

万能配对轴承外圈外表面上的“V”形标记指示了轴承的接触角方向，保证客户自行配组安装时安装正确，见图3。

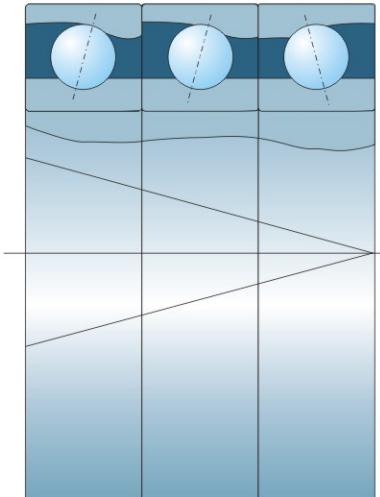


图2

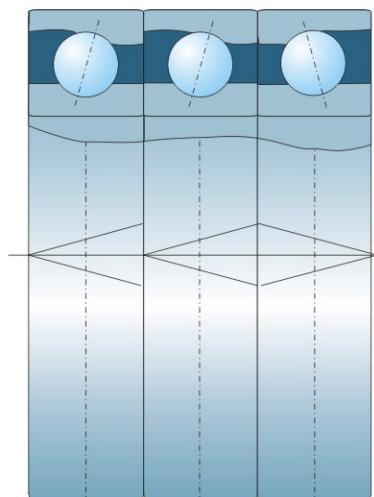


图3

Marking

A “V-shaped” marking on outside surface of the outer rings of matched bearings set. The “V” should point in the direction in which the axial load will act on the inner ring. As shown in the figure 2

A “V-shaped” is marked on outer diameter surface of universal combination bearings that indicate the direction of contact angle and ensure correct matching when they are mounted by customer. As shown in the figure 3

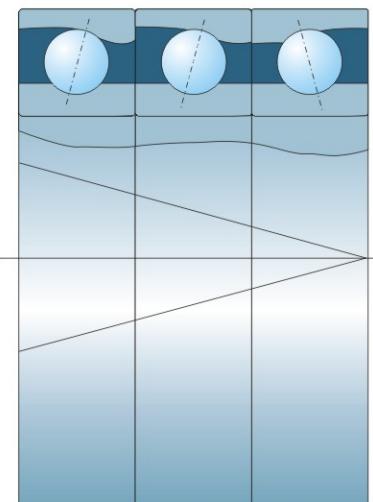


Figure 2

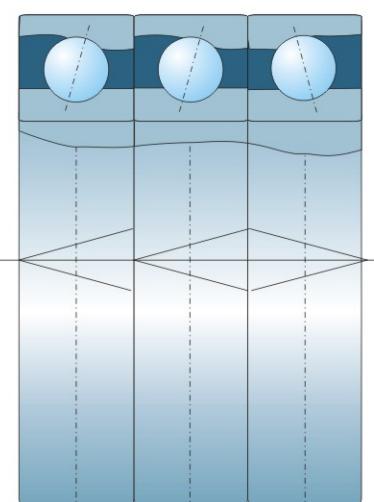


Figure 3

每个高精度角接触球轴承的内外圈端面上用标记“O”指示了径向跳动的最大点以及Kia和Kea最大值，见图4。

Each high-precision angular contact ball bearing is marked with “O” on one side face of the inner ring and outer ring indicated the max. point of radial runout Kia and Kea. As shown in the figure 4

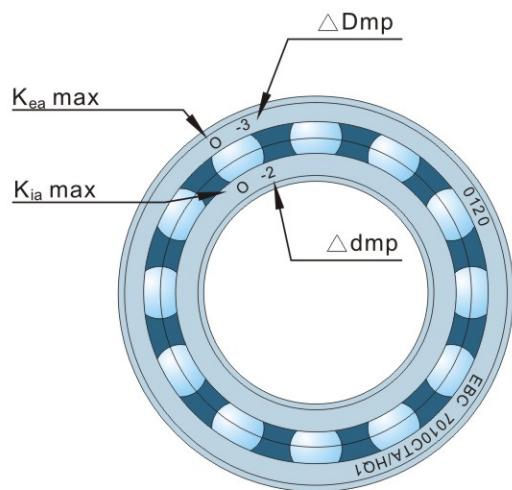


图4

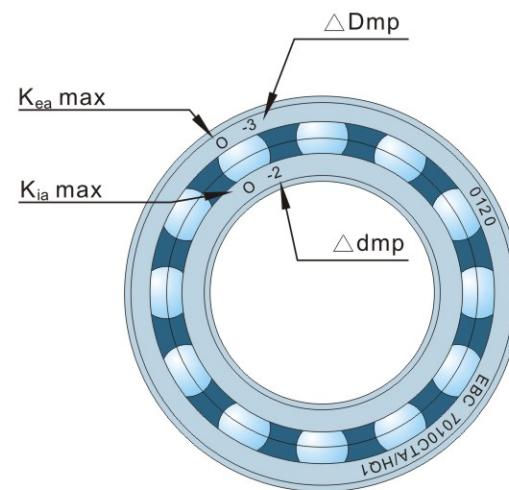


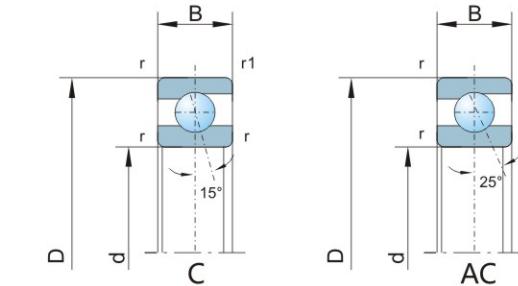
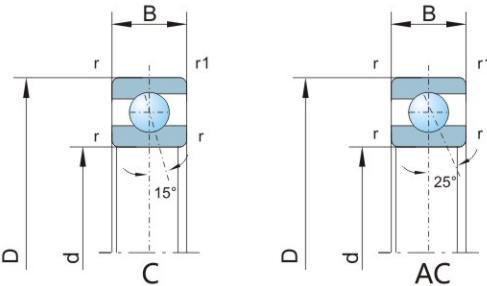
Figure 4

2.1.4 尺寸表

Dimension Tables

高精度角接触球轴承

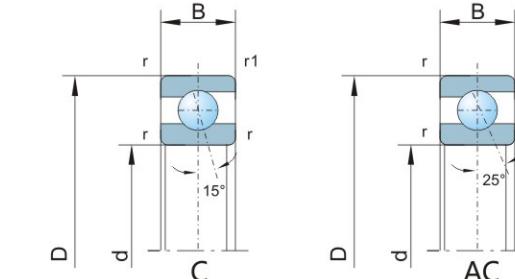
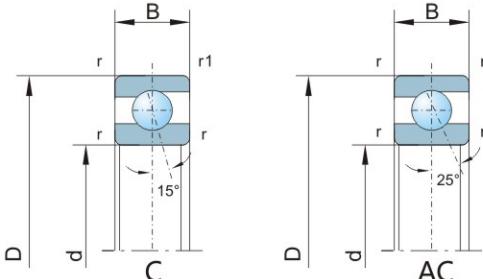
High-precision Angular Contact Ball Bearings



尺寸 Dimensions					额定载荷 Basic load rating		最高转速 Speed limit		重量 Mass	
d	D	B	型号	r	r1	Cr	Cor	油 Oil	脂 Grease	公斤 kg
mm	mm	mm	Code	min	min	kN	kN	r/min	r/min	kg
15	28	7	71902CTA	0.3	0.1	4.36	2.4	85000	56000	0.015
	28	7	71902ACTA	0.3	0.1	4.16	2.28	75000	50000	0.015
	32	9	7002CTA	0.3	0.1	6.24	3.45	75000	50000	0.028
	32	9	7002ACTA	0.3	0.1	5.92	3.25	67000	45000	0.028
	35	11	7202CTA	0.6	0.3	7.41	3.65	70000	48000	0.043
17	35	11	7202ACTA	0.6	0.3	7.15	3.55	63000	43000	0.043
	30	7	71903CTA	0.3	0.1	4.49	2.65	75000	50000	0.017
	30	7	71903ACTA	0.3	0.1	4.36	2.5	67000	45000	0.017
	35	10	7003CTA	0.3	0.1	6.50	3.8	70000	48000	0.037
	35	10	7003ACTA	0.3	0.1	6.18	3.65	60000	40000	0.037
20	40	12	7203CTA	0.6	0.3	9.23	4.65	63000	43000	0.062
	40	12	7203ACTA	0.6	0.3	8.84	4.5	56000	38000	0.062
	37	9	71904CTA	0.3	0.15	6.63	4.05	63000	43000	0.035
	37	9	71904ACTA	0.3	0.15	6.24	3.9	56000	38000	0.035
	42	12	7004CTA	0.6	0.3	10.4	6.1	56000	38000	0.065
25	42	12	7004ACTA	0.6	0.3	9.95	5.85	50000	34000	0.065
	47	14	7204CTA	1	0.3	12.4	6.55	53000	36000	0.1
	47	14	7204ACTA	1	0.3	11.9	6.2	48000	32000	0.1
	42	9	71905CTA	0.3	0.15	7.02	4.8	53000	36000	0.042
	42	9	71905ACTA	0.3	0.15	6.63	4.55	48000	32000	0.042
30	47	12	7005CTA	0.6	0.3	11.4	7.35	50000	34000	0.075
	47	12	7005ACTA	0.6	0.3	10.8	7.1	43000	28000	0.075
	52	15	7205CTA	1	0.3	14	8.15	45000	30000	0.14
	52	15	7205ACTA	1	0.3	13.5	7.8	40000	26000	0.14
	47	9	71906CTA	0.3	0.15	7.15	5.2	45000	30000	0.048
35	47	9	71906ACTA	0.3	0.15	6.76	4.9	40000	26000	0.048
	55	13	7006CTA	1	0.3	14.6	10	43000	28000	0.11
	55	13	7006ACTA	1	0.3	14	9.65	38000	24000	0.11
	62	16	7206CTA	1	0.3	24.2	16	38000	24000	0.19
	62	16	7206ACTA	1	0.3	23.4	15.3	34000	20000	0.19
40	55	10	71907CTA	0.6	0.15	9.75	6.55	40000	26000	0.074
	55	10	71907ACTA	0.6	0.15	9.23	6.2	36000	22000	0.074
	62	14	7007CTA	1	0.3	15.6	9.5	36000	22000	0.15
	62	14	7007ACTA	1	0.3	14.8	9	32000	19000	0.15
	72	17	7207CTA	1.1	0.3	31.9	21.6	34000	20000	0.28
45	72	17	7207ACTA	1.1	0.3	30.7	20.8	30000	18000	0.28
	62	12	71908CTA	0.6	0.15	12.4	8.5	34000	20000	0.11
	62	12	71908ACTA	0.6	0.15	11.7	8	30000	18000	0.11
	68	15	7008CTA	1	0.3	16.8	11	32000	19000	0.19
	68	15	7008ACTA	1	0.3	15.9	10.4	30000	18000	0.19
50	80	18	7208CTA	1.1	0.6	41	28	30000	18000	0.36
	80	18	7208ACTA	1.1	0.6	39	27	26000	16000	0.36
	68	12	71909CTA	0.6	0.15	13	9.5	32000	19000	0.13
	68	12	71909ACTA	0.6	0.15	12.4	9	28000	17000	0.13
	75	16	7009CTA	1	0.3	28.6	22.4	30000	18000	0.23
55	75	16	7009ACTA	1	0.3	27.6	21.6	26000	16000	0.23
	85	19	7209CTA	1.1	0.6	42.3	31	28000	17000	0.41
	85	19	7209ACTA	1.1	0.6	41	30	24000	15000	0.41
	72	12	71910CTA	0.6	0.15	13.5	10.4	28000	17000	0.13
	72	12	71910ACTA	0.6	0.15	12.7	9.8	26000	16000	0.13
60	80	16	7010CTA	1	0.3	29.6	24	28000	17000	0.25
	80	16	7010ACTA	1	0.3	28.1	23.2	24000	15000	0.25
	90	20	7210CTA	1.1	0.6	44.9	34	26000	16000	0.46
	90	20	7210ACTA	1.1	0.6	42.3	32.5	22000	14000	0.46
	80	13	71911CTA	1	0.3	19.5	14.6	26000	16000	0.18
65	80	13	71911ACTA	1	0.3	18.2	13.7	24000	15000	0.18
	90	18	7011CTA	1.1	0.6	39.7	32.5	24000	15000	0.37
	90	18	7011ACTA	1.1	0.6	37.1	31	22000	14000	0.37
	100	21	7211CTA	1.5	0.6	55.3	43	22000	14000	0.61
	100	21	7211ACTA	1.5	0.6	52.7	40.5	20000	13000	0.61
70	85	13	71912CTA	1	0.3	19.9	15.3	24000	15000	0.19
	85	13	71912ACTA	1	0.3	18.6	14.6	22000	14000	0.19
	95	18	7012CTA	1.1	0.6	40.3	34.5	22000	14000	0.4
	95	18	7012ACTA	1.1	0.6	39	33.5	20000	13000	0.4
	110	22	7212CTA	1.5	0.6	67.6	53	20000	13000	0.8
75	110	2								

高精度角接触球轴承

High-precision Angular Contact Ball Bearings

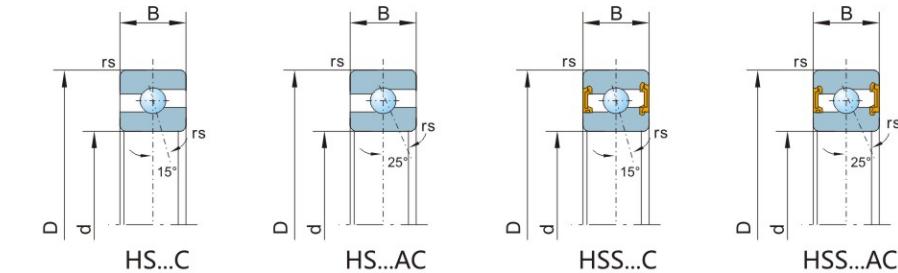
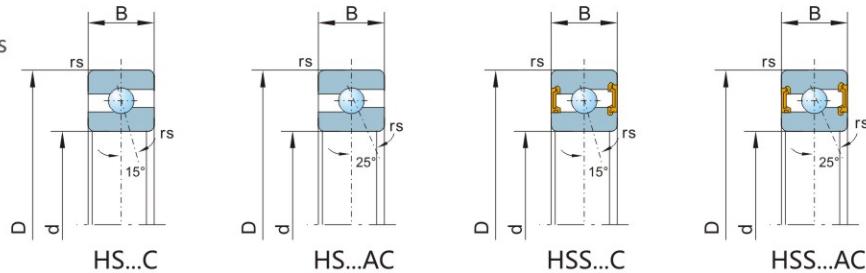


尺寸 Dimensions				额定载荷 Basic load rating		最高转速 Speed limit		重量 Mass		
d	D	B	型号 Code	r min	r1 min	Cr kN	Cor kN	油 Oil r/min	脂 Grease r/min	公斤 kg
70	100	16	71914CTA	1	0.3	34.5	34	20000	13000	0.33
	100	16	71914ACTA	1	0.3	32.5	32.5	18000	11000	0.33
	110	20	7014CTA	1.1	0.6	52	45.5	19000	12000	0.59
	110	20	7014ACTA	1.1	0.6	48.8	44	17000	10000	0.59
	125	24	7214CTA	1.5	0.6	79.3	64	18000	11000	1.1
75	125	24	7214ACTA	1.5	0.6	76.1	62	16000	9500	1.1
	105	16	71915CTA	1	0.3	35.8	37.5	19000	12000	0.35
	105	16	71915ACTA	1	0.3	33.8	35.5	17000	10000	0.35
	115	20	7015CTA	1.1	0.6	52.7	49	18000	11000	0.62
	115	20	7015ACTA	1.1	0.6	49.4	46.5	16000	9500	0.62
80	130	25	7215CTA	1.5	0.6	83.2	69.5	17000	10000	1.2
	130	25	7215ACTA	1.5	0.6	79.3	67	15000	9000	1.2
	110	16	71916CTA	1	0.3	36.4	39	18000	11000	0.37
	110	16	71916ACTA	1	0.3	34.5	36.5	16000	9500	0.37
	125	22	7016CTA	1.1	0.6	65	61	17000	10000	0.85
85	125	22	7016ACTA	1.1	0.6	62.4	58.5	15000	9000	0.85
	140	26	7216CTA	2	1	97.5	81.5	16000	9500	1.45
	140	26	7216ACTA	2	1	92.3	78	14000	8500	1.45
	120	18	71917CTA	1.1	0.6	46.2	48	17000	10000	0.53
	120	18	71917ACTA	1.1	0.6	43.6	45.5	15000	9000	0.53
90	130	22	7017CTA	1.1	0.6	67.6	65.5	16000	9500	0.89
	130	22	7017ACTA	2	1	63.7	62	14000	8500	0.89
	150	28	7217CTA	1.1	0.6	99.5	88	15000	9000	1.8
	150	28	7217ACTA	1.1	0.6	95.6	85	13000	8000	1.8
	125	18	71918CTA	1.1	0.6	47.5	51	16000	9500	0.55
95	125	18	71918ACTA	1.1	0.6	44.2	48	14000	8500	0.55
	140	24	7018CTA	1.5	0.6	79.3	76.5	15000	9000	1.15
	140	24	7018ACTA	2	1	74.1	72	13000	8000	1.15
	160	30	7218CTA	2	1	127	112	14000	8500	2.25
	160	30	7218ACTA	2	1	121	106	12000	7500	2.25
95	130	18	71919CTA	1.1	0.6	49.4	55	15000	9000	0.58
	130	18	71919ACTA	1.1	0.6	46.2	52	14000	8500	0.58
	145	24	7019CTA	1.5	0.6	81.9	80	14000	8500	1.2
	145	24	7019ACTA	1.5	0.6	76.1	76.5	13000	8000	1.2
	170	32	7219CTA	2.1	1.1	138	120	13000	8000	2.7
95	170	32	7219ACTA	2.1	1.1	133	114	12000	7500	2.7

尺寸 Dimensions				额定载荷 Basic load rating		最高转速 Speed limit		重量 Mass		
d	D	B	型号 Code	r min	r1 min	Cr kN	Cor kN	油 Oil r/min	脂 Grease r/min	公斤 kg
100	140	20	71920CTA	1.1	0.6	60.5	65.5	14000	8500	0.8
	140	20	71920ACTA	1.1	0.6	57.2	63	13000	8000	0.8
	150	24	7020CTA	1.5	0.6	83.2	85	14000	8500	1.25
	150	24	7020ACTA	1.5	0.6	79.3	80	12000	7500	1.25
	180	34	7220CTA	2.1	1.1	156	137	12000	7500	3.25
105	180	34	7220ACTA	2.1	1.1	148	129	11000	7000	3.25
	145	20	71921CTA	1.1	0.6	61.8	69.5	14000	8500	0.82
	145	20	71921ACTA	1.1	0.6	57.2	65.5	12000	7500	0.82
	160	26	7021CTA	2	1	95.6	96.5	13000	8000	1.6
	160	26	7021ACTA	2	1	90.4	93	12000	7500	1.6
110	190	36	7221CTA	2.1	1.1	172	153	12000	7500	3.85
	190	36	7221ACTA	2.1	1.1	163	146	10000	6700	3.85
	150	20	71922CTA	1.1	0.6	62.4	72	13000	8000	0.86
	150	20	71922ACTA	1.1	0.6	58.5	68	12000	7500	0.86
	170	28	7022CTA	2	1	111	108	12000	7500	1.95
120	170	28	7022ACTA	2	1	104	104	11000	7000	1.95
	200	38	7222CTA	2.1	1.1	178	166	11000	7000	4.55
	200	38	7222ACTA	2.1	1.1	168	160	10000	6700	4.55
	165	22	71924CTA	1.1	0.6	78	91.5	12000	7500	1.15
	165	22	71924ACTA	1.1	0.6	72.8	86.5	11000	7000	1.15
130	180	28	7024CTA	2	1	114	122	11000	7000	2.1
	180	28	7024ACTA	2	1	111	116	10000	6700	2.1
	215	40	7224CTA	2.1	1.1	199	193	10000	6700	5.4
	215	40	7224ACTA	2.1	1.1	190	183	9000	6000	5.4
	180	24	71926CTA	1.5	0.6	92.3	108	11000	7000	1.55
130	180	24	71926ACTA	1.5	0.6	87.1	102	10000	6700	1.

高速角接触球轴承

High-speed Angular Contact Ball Bearings

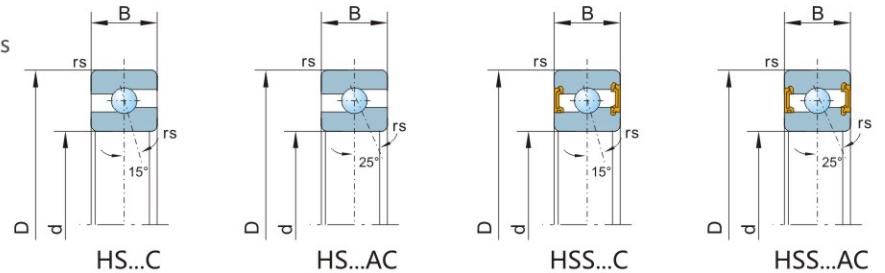


尺寸 Dimensions				额定载荷 Basic load rating		最高转速 Speed limit		重量 Mass	
d	D	B	型号 Code	rs	Cr	Cor	油 Oil	脂 Grease	公斤 kg
mm	mm	mm		mm	kN	kN	r/min	r/min	kg
17	30	7	HS 71903C1A	0.3	2.90	1.90	90000	60000	0.02
	30	7	HS 71903ACTA	0.3	2.70	1.80	75000	50000	0.02
	35	10	HS 7003CTA	0.3	3.80	2.65	80000	53000	0.04
	35	10	HS 7003ACTA	0.3	3.65	2.50	67000	45000	0.04
20	37	9	HS 71904CTA	0.3	3.90	2.85	75000	50000	0.04
	37	9	HS 71904ACTA	0.3	3.75	2.70	63000	43000	0.04
	42	12	HS 7004CTA	0.6	6.20	4.55	67000	45000	0.08
	42	12	HS 7004ACTA	0.6	5.85	4.30	56000	38000	0.08
25	42	9	HS 71905CTA	0.3	4.25	3.35	63000	43000	0.05
	42	9	HS 71905ACTA	0.3	4.00	3.15	53000	36000	0.05
	47	12	HS 7005CTA	0.6	6.30	4.90	56000	38000	0.09
	47	12	HS 7005ACTA	0.6	6.00	4.65	50000	34000	0.09
30	47	9	HS 71906CTA	0.3	6.40	5.20	53000	36000	0.05
	47	9	HS 71906ACTA	0.3	6.00	4.90	48000	32000	0.05
	55	13	HS 7006CTA	1	8.80	7.10	48000	32000	0.13
	55	13	HS 7006ACTA	1	8.30	6.70	43000	28000	0.13
35	55	10	HS 71907CTA	0.6	6.95	6.20	48000	32000	0.08
	55	10	HS 71907ACTA	0.6	6.55	5.85	40000	26000	0.08
	62	14	HS 7007CTA	1	9.30	8.30	43000	28000	0.17
	62	14	HS 7007ACTA	1	8.80	7.80	38000	24000	0.17
40	62	12	HS 71908CTA	0.6	7.20	6.95	43000	28000	0.13
	62	12	HS 71908ACTA	0.6	6.80	6.40	38000	24000	0.13
	68	15	HS 7008CTA	1	10.00	9.30	40000	26000	0.22
	68	15	HS 7008ACTA	1	9.30	8.65	36000	22000	0.22
45	68	12	HS 71909CTA	0.6	10.00	9.65	38000	26000	0.14
	68	12	HS 71909ACTA	0.6	9.50	9.00	36000	22000	0.14
	75	16	HS 7009CTA	1	12.90	12.20	38000	26000	0.27
	75	16	HS 7009ACTA	1	12.20	11.40	34000	20000	0.27
50	72	12	HS 71910CTA	0.6	10.40	10.20	36000	24000	0.15
	72	12	HS 71910ACTA	0.6	9.80	9.65	34000	20000	0.15
	80	16	HS 7010CTA	1	13.40	13.20	36000	22000	0.29
	80	16	HS 7010ACTA	1	12.50	12.20	30000	18000	0.29

尺寸 Dimensions				额定载荷 Basic load rating		最高转速 Speed limit		重量 Mass	
d	D	B	型号 Code	rs	Cr	Cor	油 Oil	脂 Grease	公斤 kg
mm	mm	mm		mm	kN	kN	r/min	r/min	kg
55	80	13	HS 71911CTA	1	13.40	13.70	34000	22000	0.2
	80	13	HS 71911ACTA	1	12.70	12.70	30000	18000	0.2
	90	18	HS 7011CTA	1.1	18.60	19.00	32000	20000	0.43
	90	18	HS 7011ACTA	1.1	17.60	17.60	28000	17000	0.43
60	85	13	HS 71912CTA	1	14.00	14.60	32000	20000	0.21
	85	13	HS 71912ACTA	1	13.20	13.40	28000	17000	0.21
	95	18	HS 7012CTA	1.1	19.30	20.00	30000	19000	0.46
	95	18	HS 7012ACTA	1.1	18.30	19.00	24000	15000	0.46
65	90	13	HS 71913CTA	1	14.30	15.30	30000	19000	0.23
	90	13	HS 71913ACTA	1	13.40	14.30	24000	15000	0.23
	100	18	HS 7013CTA	1.1	20.00	21.60	28000	17000	0.48
	100	18	HS 7013ACTA	1.1	19.00	20.00	24000	15000	0.48
70	100	16	HS 71914CTA	1	18.30	20.00	26000	16000	0.37
	100	16	HS 71914ACTA	1	17.30	18.60	22000	14000	0.37
	110	20	HS 7014CTA	1.1	26.00	28.00	26000	16000	0.67
	110	20	HS 7014ACTA	1.1	24.50	26.00	20000	13000	0.67
75	105	16	HS 71915CTA	1	19.00	21.20	26000	16000	0.4
	105	16	HS 71915ACTA	1	17.60	20.00	20000	13000	0.4
	115	20	HS 7015CTA	1.1	26.50	29.00	24000	15000	0.71
	115	20	HS 7015ACTA	1.1	25.00	27.00	20000	13000	0.71
80	110	16	HS 71916CTA	1	21.20	24.00	24000	15000	0.41
	110	16	HS 71916ACTA	1	19.60	22.40	20000	13000	0.41
	125	22	HS 7016CTA	1.1	31.50	34.50	22000	14000	0.96
	125	22	HS 7016ACTA	1.1	30.00	32.50	19000	12000	0.96
85	120	18	HS 71917CTA	1.1	22.00	26.00	22000	14000	0.61
	120	18	HS 71917ACTA	1.1	20.40	24.50	19000	12000	0.61
	130	22	HS 7017CTA	1.1	32.00	36.00	20000	13000	0.99
	130	22	HS 7017ACTA	1.1	30.00	33.50	18000	11000	0.99
90	125	18	HS 71918CTA	1.1	23.60	28.50	20000	13000	0.63
	125	18	HS 71918ACTA	1.1	22.40	26			

高速角接触球轴承

High-speed Angular
Contact Ball Bearings



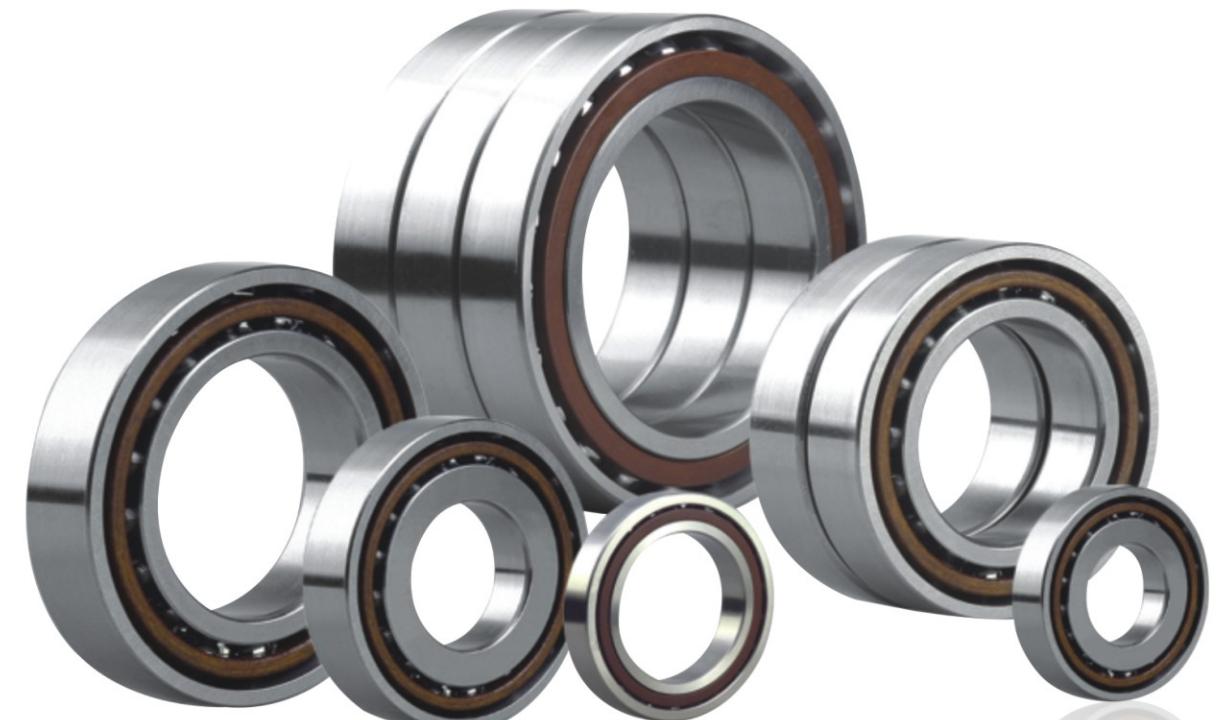
尺寸 Dimensions				额定载荷 Basic load rating		最高转速 Speed limit		重量 Mass	
d	D	B	型号 Code	rs	Cr kN	Cor kN	油 Oil r/min	脂 Grease r/min	公斤 kg
mm	mm	mm		mm					
95	130	18	HS 71919CTA	1.1	24.50	30.00	19000	13000	0.66
	130	18	HS 71919ACTA	1.1	22.80	28.00	17000	10000	0.66
	145	24	HS 7019CTA	1.5	38.00	44.00	18000	12000	1.34
	145	24	HS 7019ACTA	1.5	35.50	41.50	16000	9500	1.34
100	140	20	HS 71920CTA	1.1	29.00	36.00	18000	11000	0.9
	140	20	HS 71920ACTA	1.1	27.50	33.50	16000	9500	0.9
	150	24	HS 7020CTA	1.5	38.00	45.50	18000	12000	1.4
	150	24	HS 7020ACTA	1.5	36.00	42.50	15000	9000	1.4
105	145	20	HS 71921CTA	1.1	30.00	38.00	18000	12000	0.9
	145	20	HS 71921ACTA	1.1	28.00	35.50	15000	9000	0.9
	160	26	HS 7021CTA	2	49.00	58.50	17000	10000	1.8
	160	26	HS 7021ACTA	2	46.50	54.00	14000	8500	1.8
110	150	20	HS 71922CTA	1.1	34.50	44.00	17000	10000	1
	150	20	HS 71922ACTA	1.1	32.50	40.50	14000	8500	1
	170	28	HS 7022CTA	2	50.00	60.00	16000	9500	2.2
	170	28	HS 7022ACTA	2	46.50	56.00	13000	8000	2.2
120	165	22	HS 71924CTA	1.1	36.50	48.00	15000	9000	1.3
	165	22	HS 71924ACTA	1.1	34.00	45.00	13000	8000	1.3
	180	28	HS 7024CTA	2	51.00	63.00	14000	8500	2.3
	180	28	HS 7024ACTA	2	48.00	58.50	12000	7500	2.3
130	180	24	HS 71926CTA	1.5	41.50	56.00	14000	8500	1.8
	180	24	HS 71926ACTA	1.5	39.00	52.00	11000	7000	1.8
	200	33	HS 7026CTA	2	65.50	83.00	12000	7500	3.7
	200	33	HS 7026ACTA	2	62.00	78.00	10000	6700	3.7

使用工程聚合物保持架的限制转速请联系本公司。

本公司也提供D接触角(18°)产品，如有需要请联系销售人员。

Please contact us for speed limit of nylon cage.

Our company also provides D contact angle (18°) products. Please contact the sales representatives necessary.



2.2 滚珠丝杠用推力角接触球轴承

2.2.1 特点

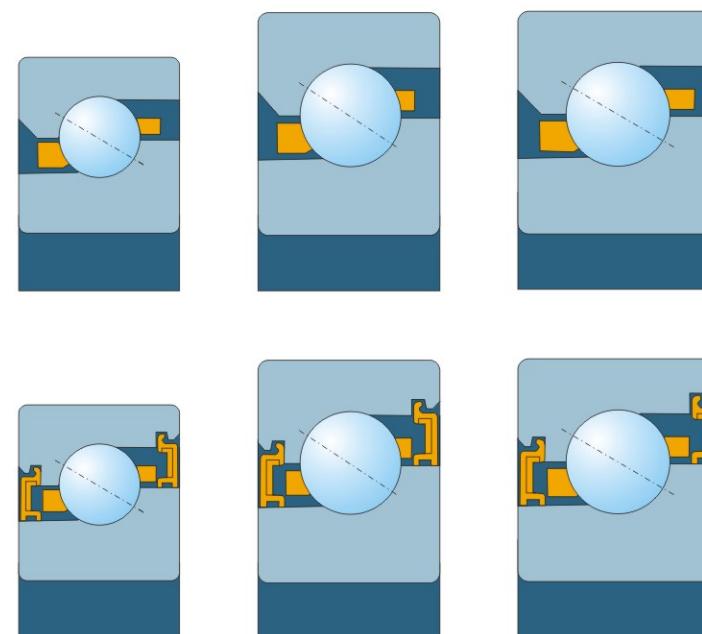
- 高轴向载荷能力
- 高轴向刚度
- 高运转精度
- 满足高转速和高加速度
- 低摩擦扭矩

76系列 (标准系列)

- 7602 系列和 7603 系列
- 工程聚合物保持架
- 可根据应用需求选择开式或者带密封形式

BSB系列 (丝杠应用)

- 工程聚合物保持架
- 可根据应用需求选择开式或者带密封形式



2.2 Unidirectional Angular Contact Thrust Ball Bearings for Screw Drives

2.2.1 Features

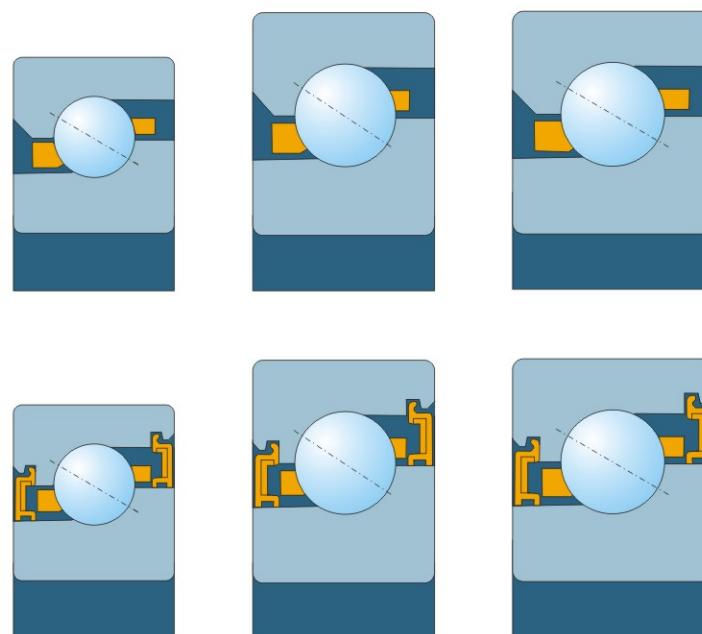
- High axial load carrying capacity
- High axial stiffness
- Very high running accuracy
- Ability to accommodate high speeds and accelerations
- Low frictional moment

76 series (Standard Series)

- 7602 series and 7603 series
- Engineered polymer cages
- Select either Open or Sealed depending on application

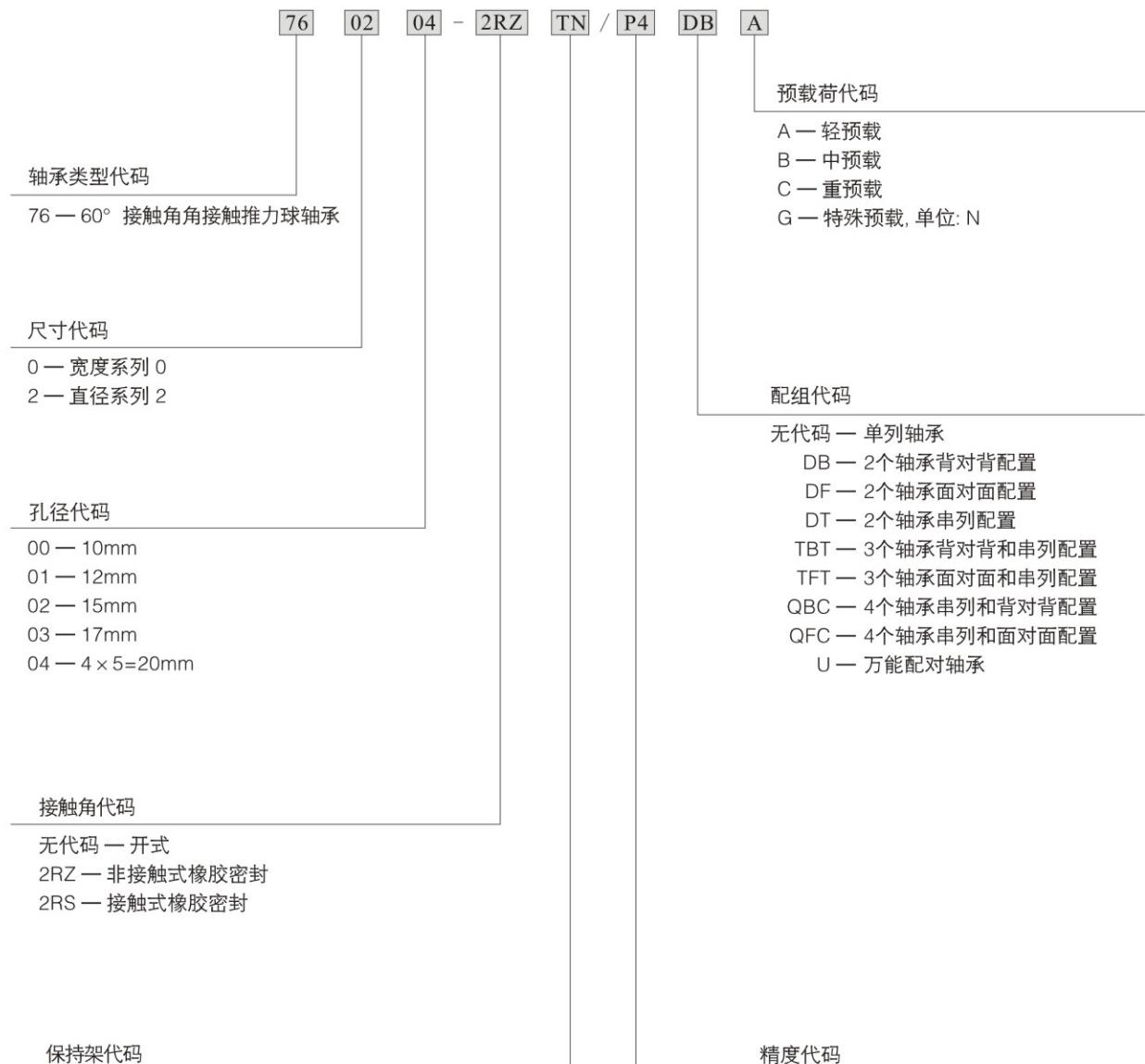
BSB Series(for Screw Drives)

- Engineered polymer cages
- Select either Open or Sealed depending on application



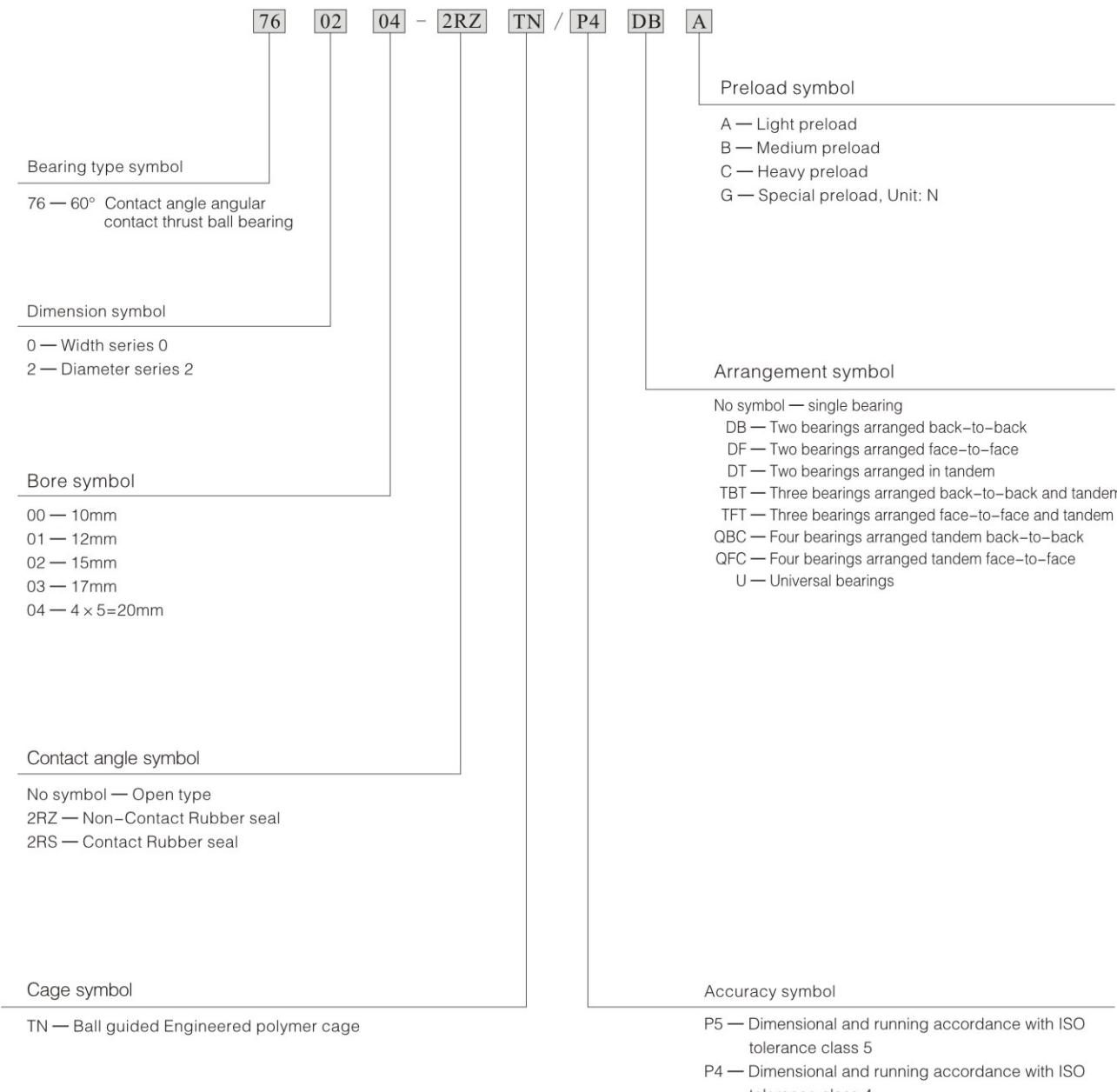
2.2.2 轴承代码

76系列角接触推力球轴承

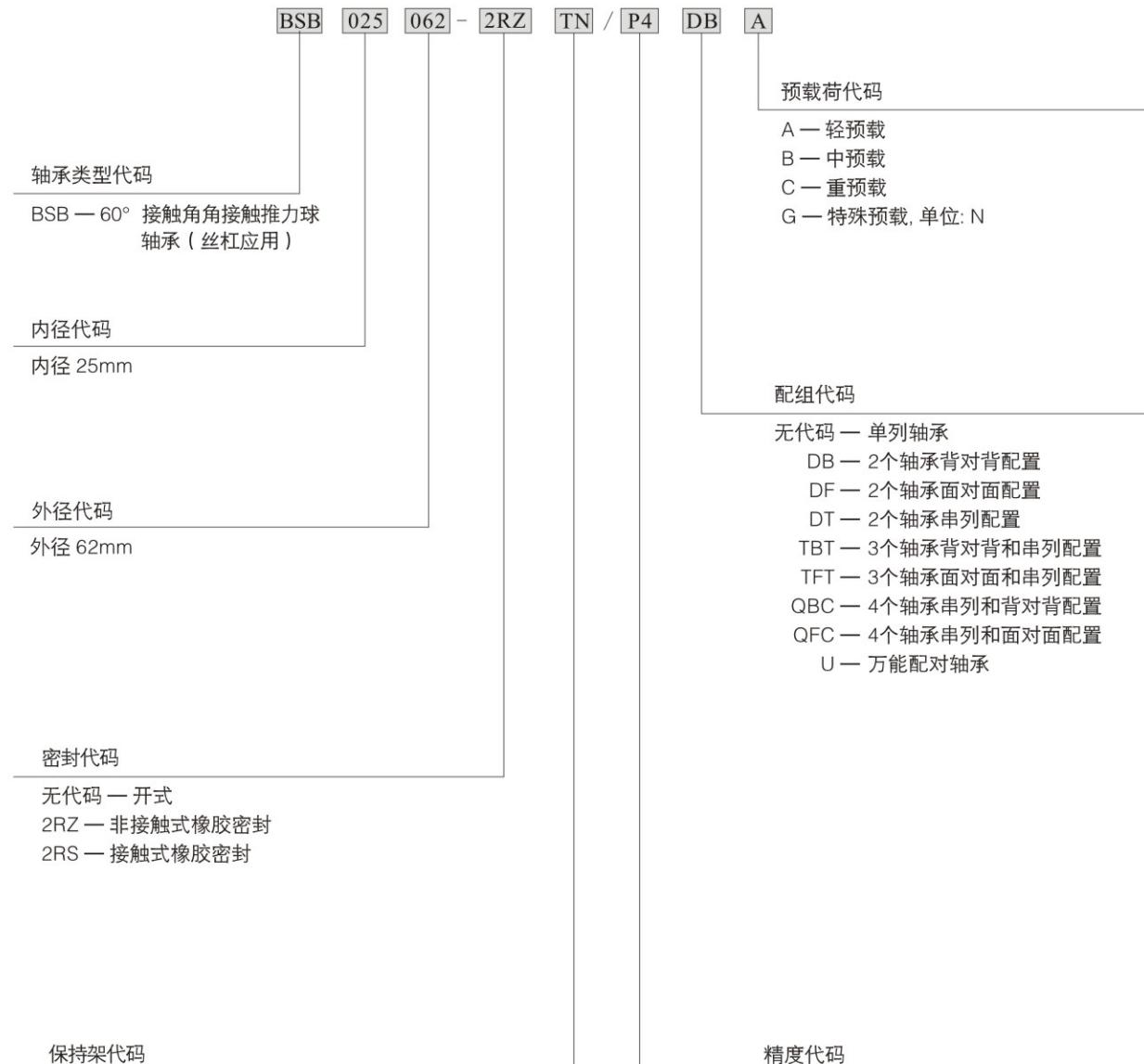


2.2.2 Numbering system

76series angular contact thrust ball bearings



BSB系列推力角接触球轴承



Dimension table of BSB series

Bearing type symbol BSB — 60° Contact angle angular contact thrust ball bearing(screw drives)	Dimension symbol Inner dimension 25mm	Arrangement symbol No symbol — single bearing
Outside diameter symbol Outer diameter is 62mm	Seal symbol No symbol — Open type 2RZ — Non-Contact Rubber seal 2RS — Contact Rubber seal	DB DB — Two bearings arranged back-to-back DF — Two bearings arranged face-to-face DT — Two bearings arranged in tandem TBT — Three bearings arranged back-to-back and tandem TFT — Three bearings arranged face-to-face and tandem QBC — Four bearings arranged tandem back-to-back QFC — Four bearings arranged tandem face-to-face U — Universal bearings
Cage symbol TN — Ball guided Engineered polymer cage	Accuracy symbol P5 — Dimensional and running accordance with ISO tolerance class 5 P4 — Dimensional and running accordance with ISO tolerance class 4	A Preload symbol A — Light preload B — Medium preload C — Heavy preload G — Special preload, Unit: N

对照表

品牌	EBC Prime	SKF	SNFA	NSK
轴承类型代码				
ISO 02	76	BSA	BS 2	
特殊	BSB	BSD	BS	TAC.B

Comparison Table of EBC Prime Bearings with other makes

Manufacturer	EBC Prime	SKF	SNFA	NSK
Bearing type symbol				
ISO 02	76	BSA	BS 2	
Special	BSB	BSD	BS	TAC.B

标记

最大轴向跳动点 “Sia” and “Sea” 分别标示在内外圈端面，如图.5

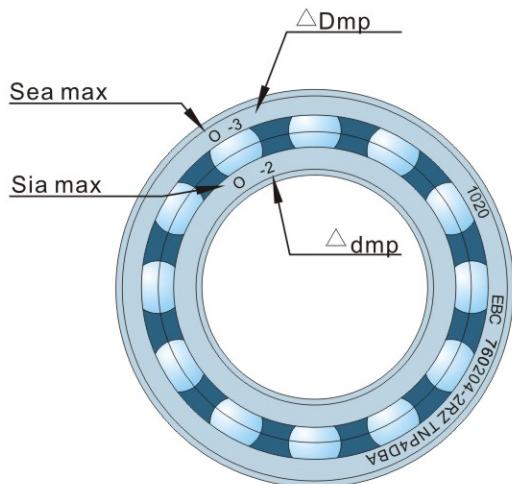
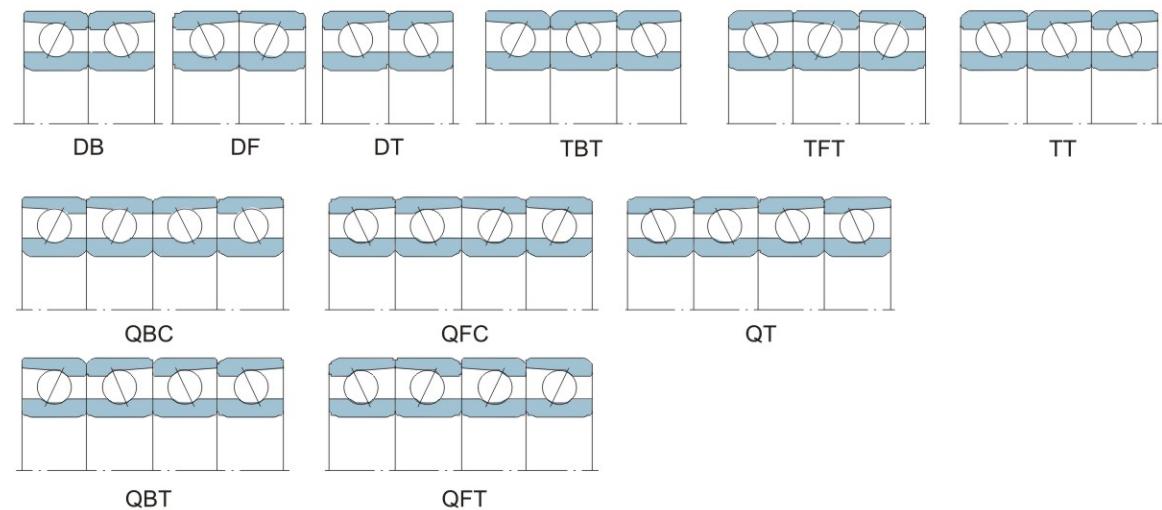


图5

注: 轴承布置类型和标记和角接触球轴承是一样的。

**Marking**

The max. point of axial runout “Sia” and “Sea” is marked on one side face of inner ring and outer ring of each combination bearings, As shown in the figure 5

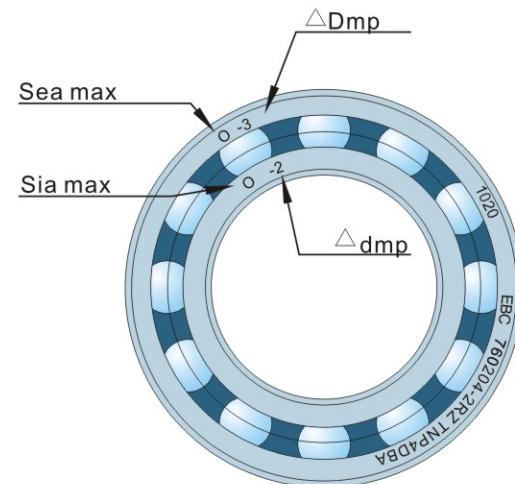
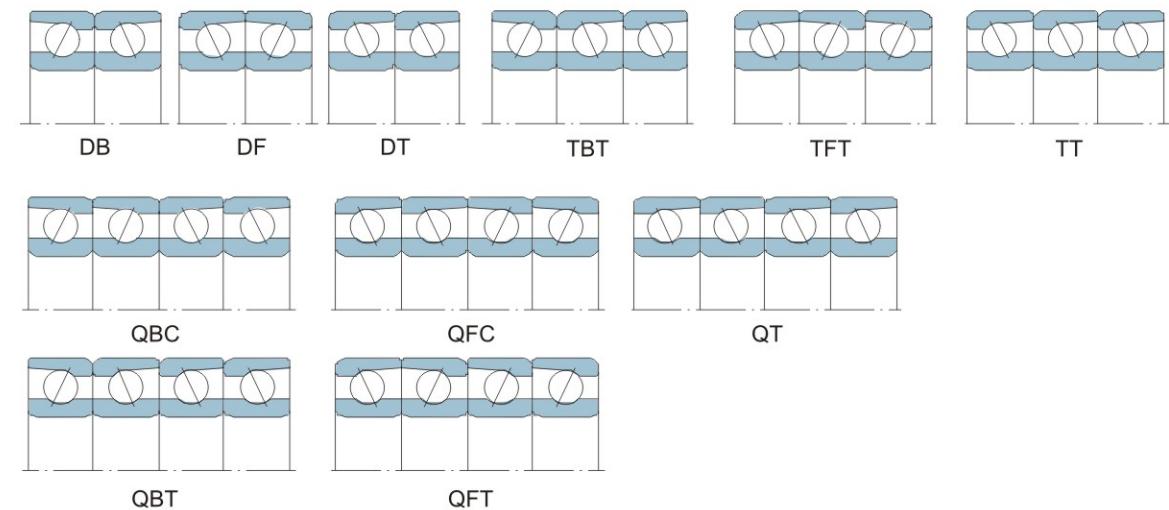


Figure 5

Notes: The type of arrangement structure and the mark after arranging need to be same with angular contact ball bearing requirement.

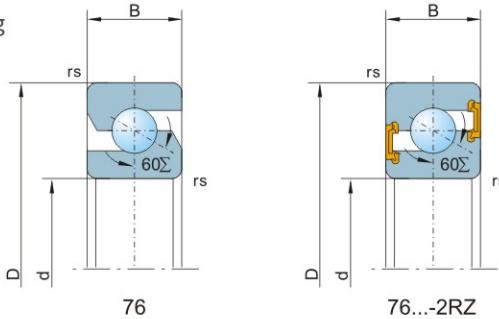


2.2.3 尺寸表

Dimension Tables

76系列角接触推力球轴承

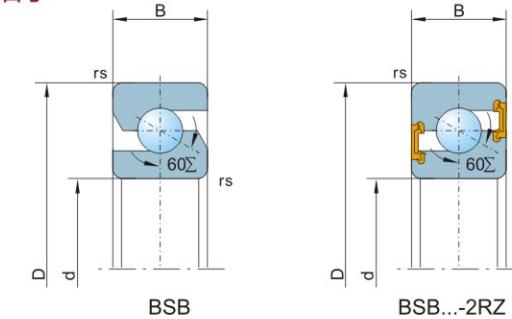
76 series angular contact thrust ball bearing



尺寸 Dimensions					额定载荷 Basic load rating		最高转速 Speed limit		重量 Mass
d	D	B	型号 Code	rs	Cr	Cor	油 Oil	脂 Grease	公斤 kg
mm	mm	mm		min	kN	kN	r/min	r/min	
15	35	11	760202TN	0.6	12.50	15.00	10000	8000	0.05
17	40	12	760203TN	0.6	16.60	20.00	8800	7100	0.07
20	47	14	760204TN	1	19.30	25.00	7500	6000	0.13
	52	15	760304TN	1.1	24.50	32.00	7000	5600	0.17
25	52	15	760205TN	1	22.00	30.50	6500	5200	0.16
	62	17	760305TN	1.1	28.50	41.50	5800	4600	0.28
30	62	16	760206TN	1	26.00	39.00	5500	4400	0.24
	72	19	760306TN	1.1	34.50	55.00	5000	4000	0.41
35	72	17	760207TN	1.1	30.00	50.00	4700	3800	0.34
	80	21	760307TN	1.5	36.50	61.00	4400	3500	0.55
40	80	18	760208TN	1.1	37.50	64.00	4200	3400	0.44
	90	23	760308TN	1.5	50.00	83.00	3900	3100	0.76
45	85	19	760209TN	1.1	38.00	68.00	3900	3100	0.5
	100	25	760309TN	1.5	58.50	104.00	3500	2800	1.02
50	90	20	760210TN	1.1	39.00	75.00	3600	2900	0.57
	110	27	760310TN	2	69.50	127.00	3200	2500	1.33
55	100	21	760211TN	1.5	40.50	81.50	3300	2600	0.75
	120	29	760311TN	2	78.00	146.00	2900	2300	1.69
60	110	22	760212TN	1.5	56.00	112.00	3000	2400	0.96
	130	31	760312TN	2.1	88.00	166.00	2700	2200	2.12
65	120	23	760213TN	1.5	57.00	122.00	2800	2200	1.2
	140	33	760313TN	2.1	100.00	196.00	2500	2000	2.6
70	125	24	760214TN	1.5	65.50	137.00	2600	2100	1.32
	150	35	760314TN	2.1	110.00	220.00	2300	1900	3.16
75	130	25	760215TN	1.5	67.00	150.00	2500	2000	1.45
	160	37	760315TN	2.1	125.00	255.00	2200	1800	3.79
80	140	26	760216TN	2.0	76.50	175.00	2300	1900	1.76
	170	39	760316TN	2.1	137.00	285.00	2000	1600	4.5

BSB系列推力角接触球轴承

Dimension table of BSB series



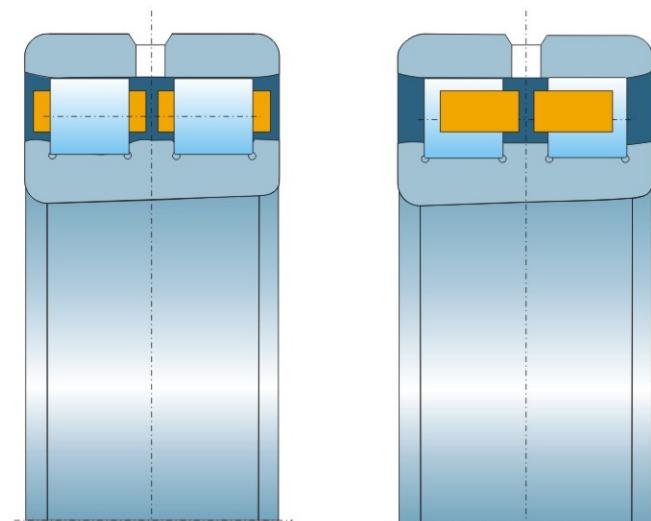
尺寸 Dimensions					额定载荷 Basic load rating		最高转速 Speed limit		重量 Mass
d	D	B	型号 Code	rs	Cr	Cor	油 Oil	脂 Grease	公斤 kg
mm	mm	mm		min	kN	kN	r/min	r/min	
15	47	15	BSB 015047	1	21.50	27.00	8000	6000	0.13
17	47	15	BSB 017047	1	21.50	27.00	8000	6000	0.14
20	47	15	BSB 020047	1	21.50	27.00	8000	6000	0.13
25	62	15	BSB 025062	1	28.50	41.50	6000	4500	0.24
30	62	15	BSB 030062	1	26.00	39.00	5600	4300	0.23
35	72	15	BSB 035072	1	30.00	50.00	5000	3600	0.3
40	72	15	BSB 040072	1	28.00	49.00	4800	3600	0.26
	90	20	BSB 040090	1.5	50.00	83.00	4000	3000	0.65
45	75	15	BSB 045075	1	28.50	52.00	4300	3200	0.26
	100	20	BSB 045100	1.5	58.80	104.00	3600	2600	0.81
50	100	20	BSB 050100	1.5	58.50	104.00	3400	2600	0.75
	90	15	BSB 055090	1	32.50	65.50	3400	2600	0.38
55	100	20	BSB 055100	1	40.50	81.50	3400	2600	0.75
	120	20	BSB 055120	2	60.00	116.00	3000	2200	1.18
60	120	20	BSB 060120	1.5	61.00	120.00	3000	2200	1.11

2.3 NN系列双列圆柱滚子轴承

2.3.1 特点

EBC Prime双列圆柱滚子轴承可提供圆柱孔或圆锥孔（锥度1:12）2种类型。在机床应用中，带锥孔的圆柱滚子轴承是首选。锥孔轴承可以在安装过程中更精确地调整间隙或预紧力。

为了有效润滑，NN系列轴承在外圈上有一个环形槽和三个润滑孔。

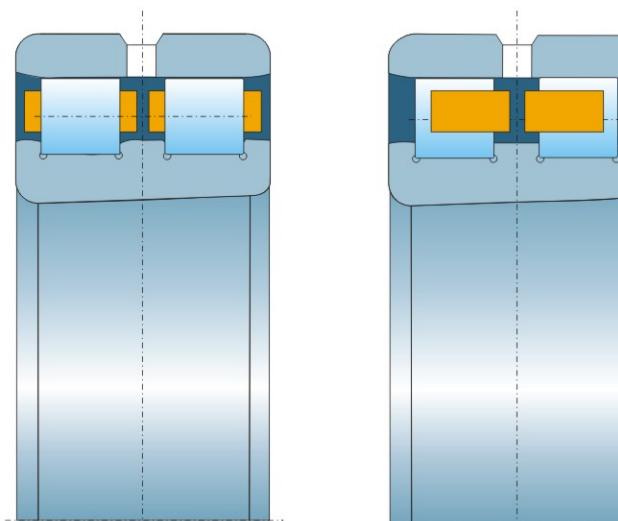


2.3 Double-Row Cylindrical Roller Bearings in the NN Series

2.3.1 Features

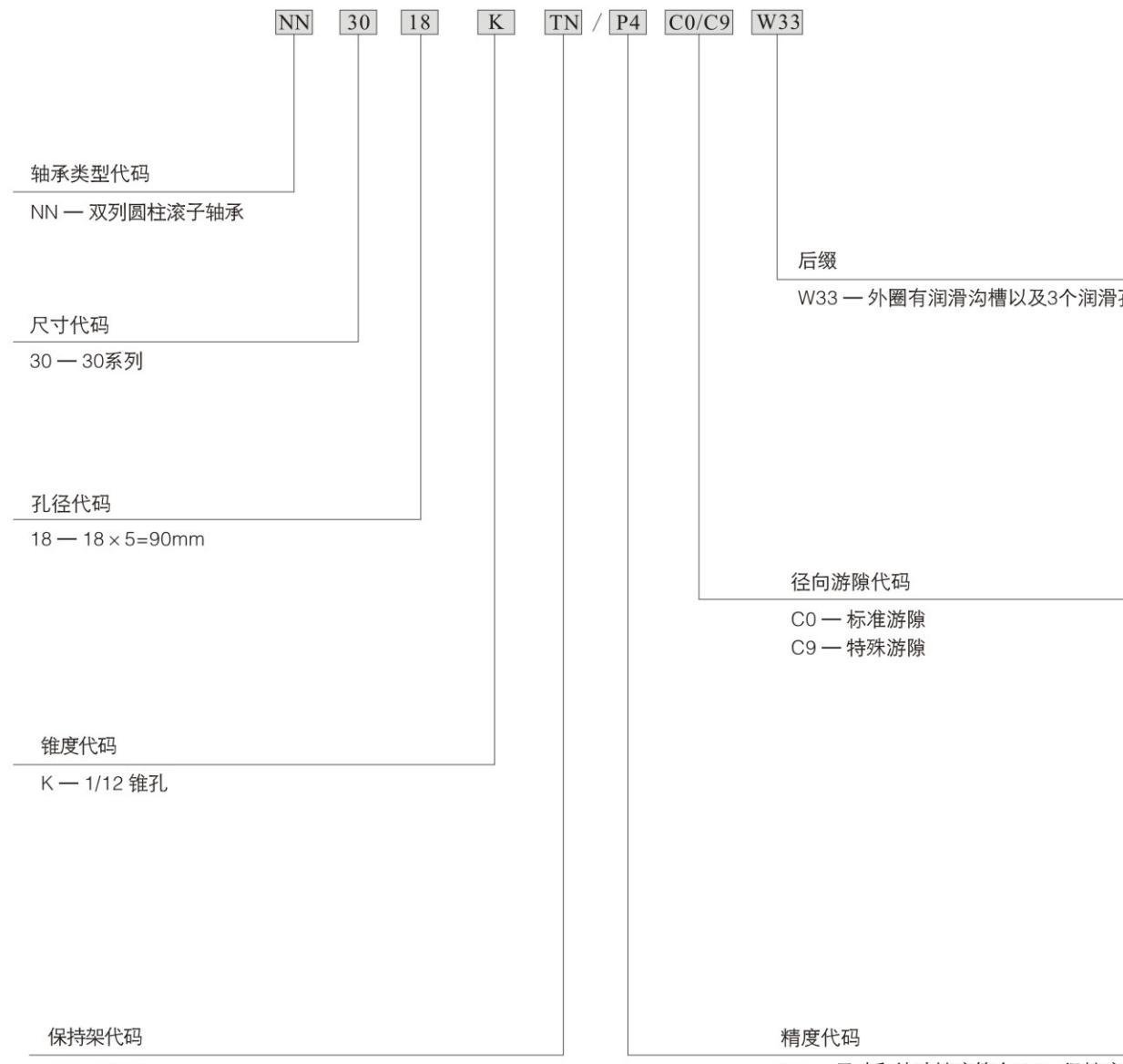
EBC Prime double-row cylindrical roller bearings are available with either a cylindrical or a tapered bore (taper 1:12). In machine tool applications, cylindrical roller bearings with a tapered bore are preferred, because the taper enables more accurate adjustment of clearance or preload during installation.

In order to facilitate efficient lubrication, the bearings in the NN series have an annular groove and three lubrication holes in the outer ring. EBC Prime double-row cylindrical roller bearings are fitted, depending on the size with either machined brass cage or engineered polymer cage.



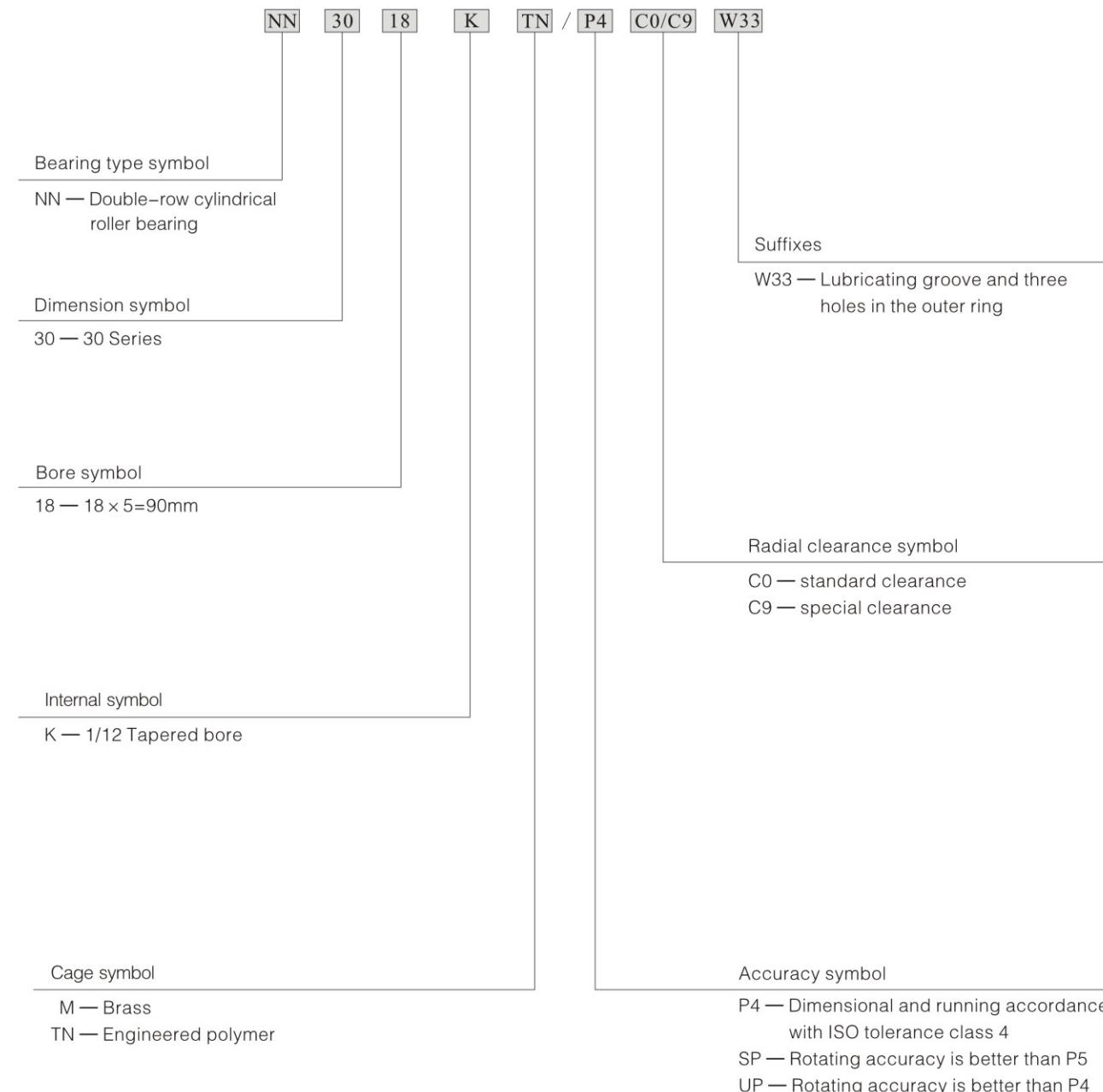
2.3.2 轴承代码

NN系列双列圆柱滚子轴承



2.3.2 Numbering system

Double-row cylindrical roller bearings in the NN series

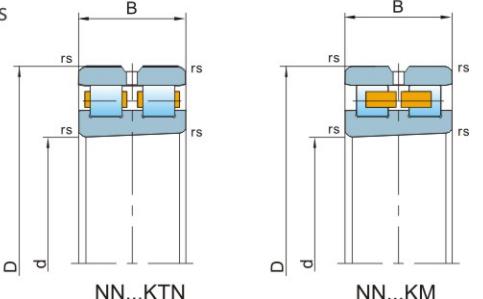


2.3.3 尺寸表

Dimension Tables

NN系列双列圆柱滚子轴承

NN-Double-row cylindrical roller bearings



尺寸 Dimensions			额定载荷 Basic load rating		最高转速 Speed limit		重量 Mass		
d mm	D mm	B mm	型号 Code	rs mm	Cr kN	Cor kN	油 Oil r/min	脂 Grease r/min	公斤 kg
25	47	16	NN3005K	0.6	25.80	30.00	25000	20900	0.127
30	55	19	NN3006K	1	31.00	37.00	23600	20000	0.172
35	62	20	NN3007K	1	39.50	50.00	20700	17600	0.224
40	68	21	NN3008K	1	43.50	55.50	18600	15800	0.283
45	75	23	NN3009K	1	52.00	68.50	16700	14200	0.373
50	80	23	NN3010K	1	53.00	72.50	15400	13100	0.402
55	90	26	NN3011K	1.1	69.50	96.50	13800	11800	0.592
60	95	26	NN3012K	1.1	73.50	106.00	13000	11000	0.635
65	100	26	NN3013K	1.1	77.00	116.00	12200	10400	0.681
70	110	30	NN3014K	1.1	94.50	143.00	11200	9500	0.988
75	115	30	NN3015K	1.1	96.50	149.00	10600	9000	1.03
80	125	34	NN3016K	1.1	119.00	186.00	9800	8300	1.44
85	130	34	NN3017K	1.1	122.00	194.00	9400	8000	1.52
90	140	37	NN3018K	1.5	143.00	228.00	8700	7400	1.93
95	145	37	NN3019K	1.5	146.00	238.00	8400	7100	2.03
100	150	37	NN3020K	1.5	149.00	247.00	8000	6800	2.12
105	160	41	NN3021K	2	192.00	310.00	7600	6500	2.69
110	170	45	NN3022K	2	222.00	360.00	7200	6100	3.44
120	180	46	NN3024K	2	233.00	390.00	6700	5700	3.75
130	200	52	NN3026K	2	284.00	475.00	6300	5300	5.2

记事 Note:

EBC Prime

EBC Prime

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