



Deep Groove Ball Bearings

深沟球轴承



Deep Groove Ball Bearings

Deep groove ball bearings are designed to withstand radial load. Advantages include simple structure design, easy maintenance, suitable for high speed rotation environment.

Deep groove ball bearings are most commonly used compared to other types of bearings. Applications are wide and its consumptions is approximately 60% of world's bearings populations.

深沟球轴承产品样本

深沟球轴承是一种典型的向心球轴承。它具有向心球轴承的优点，结构简单，维修方便，适用于高转速的环境。

深沟球轴承是一种用量最大，用途最广的轴承，占全世界轴承用量的60%。在我们生活的各个方面都有它们的存在。



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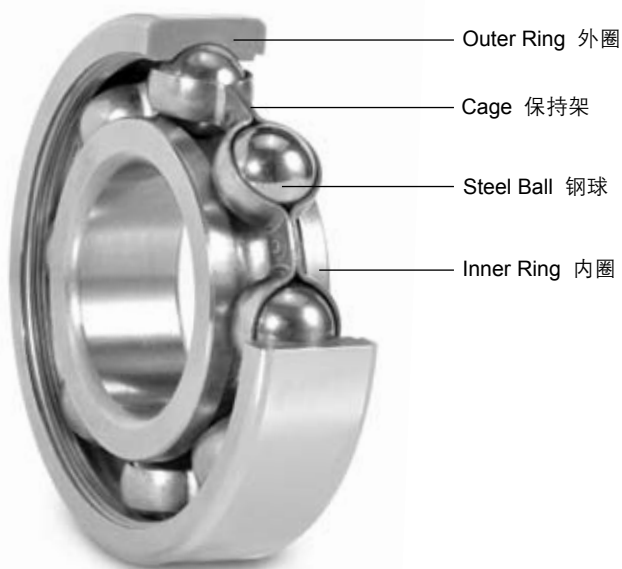
1.1 Structure

Four primary components of deep groove ball bearings are :

- 1) Outer Ring
- 2) Inner Ring
- 3) Steel Ball
- 4) Cage

1.1 结构

深沟球轴承主要包含四个零件：外圈、内圈、钢球、保持架。



1.2 Material

Material used in manufacturing deep groove ball bearings is high carbon chromium steel, Gcr15. However, according to the different applications and environment, material can be modified accordingly. Examples, in food & beverage, ship building and other industries, stainless steel material is necessary. Some home appliances require plastic material.

1.2 材料

目前轴承常用的材料是高碳铬轴承钢，例如GCr15。但根据轴承应用的不同，轴承使用的材料也会做出相应的调整。例如食品工业和造船等行业多用不锈钢轴承。家具窗帘等会使用塑料轴承。

Cross Table of Bearings Material (Table 1) 常用轴承材料(表格1)

Type	China 中国	America 美国	Germany 德国		Japan 日本	France 法国	Sweden 瑞典
Stainless Steel 不锈钢	GB	AISI	DIN	W-Nr	JIS	NF	
	9Cr18	AISI440B	X90CrMoV18	1.4112	SUS440B	Z105CrMo17	
	9Cr18Mo	AISI440C	X105CrMo17	1.4125	SUS440C	Z105CrMo17	
	0Cr18Ni9	AISI304	X5CrNi18-10	1.4301	SUS304	Z7CN18-09	
	0Cr17Ni12Mo2	AISI316	X5CrNiMo17-12-2	1.4401	SUS316	Z7CND18-12-03	
Chromium Steel 轴承钢	GCr15	52100	100Cr6	1.3505	SUJ2	100Cr6	SKF3
	GCr15SiMn		100CrMn6				
	GCr18Mo		100CrMo7	1.3537			SKF24

1.3 Dimensions and Tolerances

Bearings dimension and tolerance are critical on how a bearing is being selected and mounted. NIS bearings' dimensions and tolerances are manufactured accordingly to ISO standard. See catalog for detailed dimension information.

1.3 外形尺寸和公差

轴承的外形尺寸和公差是轴承使用中一个重要的参数。它决定了轴承能否被安装到位。NIS深沟球轴承的外型尺寸和公差符合ISO标准规定，尺寸详见轴承目录，公差参照下表：（公差表）

Table 2a. Normal Tolerances for Deep Groove Ball Bearings 普通级精度的深沟球轴承

Inner Ring 内圈												
d		Δd_{mp}		$V_{dp}^{(2)}$ Diameter Series			V_{dmp}	K_{ia}	ΔB_s			V_{Bs}
over	incl.	high	low	9 max	0,1 max	2,3,4 max	max	max	high	Normal low	Modify ⁽³⁾ low	max
mm		μm		μm			μm	μm		μm	μm	
0.6 ¹⁾	2.5	0	-8	10	8	6	6	10	0	-40	-	12
2.5	10	0	-8	10	8	6	6	10	0	-120	-250	15
10	18	0	-8	10	8	6	6	10	0	-120	-250	20
18	30	0	-10	13	10	8	8	13	0	-120	-250	20
30	50	0	-12	15	12	9	9	15	0	-120	-250	20
50	80	0	-15	19	19	11	11	20	0	-150	-380	25
80	120	0	-20	25	25	15	15	25	0	-200	-380	25
120	180	0	-25	31	31	19	19	30	0	-250	-500	30
180	250	0	-30	38	38	23	23	40	0	-300	-500	30
250	315	0	-35	44	44	26	26	50	0	-350	-500	35
315	400	0	-40	50	50	30	30	60	0	-400	-630	40
400	500	0	-45	56	56	34	34	65	0	-450	-	50
500	630	0	-50	63	63	38	38	70	0	-500	-	60
630	800	0	-75	-	-	-	-	80	0	-750	-	70
800	1000	0	-100	-	-	-	-	90	0	-1000	-	80
1000	1250	0	-125	-	-	-	-	100	0	-1250	-	100
1250	1600	0	-160	-	-	-	-	120	0	-1600	-	120
1600	2000	0	-200	-	-	-	-	140	0	-2000	-	140

¹⁾ Include in 0.6 包含0.6在内。 ²⁾ Not include in diameter series 7, 8 直径系列 7, 8 无规定值。

³⁾ Apply for single inner ring, when they are mounted in pair 系指成对或成组安装时，单个轴承的内圈。

Table 2b. Normal Tolerances for Deep Groove Ball Bearings 普通级精度的深沟球轴承

Outer Ring 外圈												
D		ΔD_{mp}		$V_{Dp}^{(2,4)}$ Open Diameter Series				$V_{Dmp}^{(4)}$	K_{ea}	ΔC_s		V_{Cs}
over	incl.	high	low	9 max	0,1 max	2,3,4 max	2,3,4 max	max	max	high	low	max
mm		μm		μm				μm	μm	μm	μm	μm
2.5 ¹⁾	6	0	-8	10	8	6	10	6	15			
6	18	0	-8	10	8	6	10	6	15			
18	30	0	-9	12	9	7	12	7	15			
30	50	0	-11	14	11	8	16	8	20			
50	80	0	-13	16	13	10	20	10	25			
80	120	0	-15	19	19	11	26	11	35			
120	150	0	-18	23	23	14	30	14	40			
150	180	0	-25	31	31	19	38	19	45			
180	250	0	-30	38	38	23	-	23	50			
250	315	0	-35	44	44	26	-	26	60			
315	400	0	-40	50	50	30	-	30	70			
400	500	0	-45	56	56	34	-	34	80			
500	630	0	-50	63	63	38	-	38	100			
630	800	0	-75	94	94	55	-	55	120			
800	1000	0	-125	-	-	-	-	-	140			
1000	1250	0	-125	-	-	-	-	-	160			
1250	1600	0	-160	-	-	-	-	-	190			
1600	2000	0	-200	-	-	-	-	-	220			
2000	2500	0	-250	-	-	-	-	-	250			

¹⁾ Include in 2.5 包含2.5在内。 ²⁾ Not apply for diameter series 7 and 8 直径系列 7 和 8 无规定值。 ³⁾ Not apply for diameter series 9, 0 and 1 直径系列 9, 0 和 1 无规定值。

⁴⁾ Apply to snap ring before mounting or after dismounting 适用于内外止动圈 安装前和拆卸后。

Table 2c. Class 6 Tolerances for Deep Groove Ball Bearings 6级精度的深沟球轴承

Inner Ring 内圈												
d		Δd_{mp}		$V_{dp}^{(2)}$ Diameter Series			V_{dmp}	K_{α}	ΔB_s	V_{Bs}		
over	incl.	high	low	9 max	0,1 max	2,3,4 max	max	max	high	Normal low	Modify ⁽³⁾ low	max
mm		μm		μm			μm	μm		μm	μm	
0.6 ¹⁾	2.5	0	-7	9	7	5	5	5	0	-40	-	12
2.5	10	0	-7	9	7	5	5	6	0	-120	-250	15
10	18	0	-7	9	7	5	5	7	0	-120	-250	20
18	30	0	-8	10	8	6	6	8	0	-120	-250	20
30	50	0	-10	13	10	8	8	10	0	-120	-250	20
50	80	0	-12	15	15	9	9	10	0	-150	-380	25
80	120	0	-15	19	19	11	11	13	0	-200	-380	25
120	180	0	-18	23	23	14	14	18	0	-250	-500	30
180	250	0	-22	28	38	27	19	20	0	-300	-500	30
250	315	0	-25	31	31	19	19	25	0	-350	-500	35
315	400	0	-30	38	38	23	23	30	0	-400	-630	40
400	500	0	-35	44	44	26	26	35	0	-450	-	50
500	630	0	-40	50	50	30	30	40	0	-500	-	60

1) Include in 0.6 包含0.6在内. 2) Not include in diameter series 7, 8 直径系列 7, 8 无规定值.
3) Apply for single inner ring, when they are mounted in pair 系指成对或成组安装时, 单个轴承的内圈.

Table 2d. Class 6 Tolerances for Deep Groove Ball Bearings 6级精度的深沟球轴承

Outer Ring 外圈												
D		ΔD_{mp}		$V_{Dp}^{(2)(4)}$ Open Diameter Series				$V_{Dmp}^{(4)}$	K_{α}	ΔC_s	V_{Cs}	
over	incl.	high	low	9 max	0,1 max	2,3,4 max	2,3,4 max	max	max	high	low	max
mm		μm		μm				μm	μm	μm	μm	μm
2.5 ¹⁾	6	0	-7	9	7	5	9	5	8			
6	18	0	-7	9	7	5	9	5	8			
18	30	0	-8	10	8	6	10	6	9			
30	50	0	-9	11	9	7	13	7	10			
50	80	0	-11	14	11	8	16	8	13			
80	120	0	-13	16	16	10	20	10	18			
120	150	0	-15	19	19	11	25	11	20	Be same to B and Vbs of inner ring 与同一轴承内圈的 B 和 Vbs相同		
150	180	0	-18	23	23	14	30	14	23			
180	250	0	-20	25	25	15	-	15	25			
250	315	0	-25	31	31	19	-	19	30			
315	400	0	-28	35	35	21	-	21	35			
400	500	0	-33	41	41	25	-	25	40			
500	630	0	-38	48	48	29	-	29	50			
630	800	0	-45	56	56	34	-	34	60			
800	1000	0	-60	75	75	45	-	45	75			

1) Include in 2.5 包含2.5在内. 2) Not apply for diameter series 7 and 8 直径系列 7 和 8 无规定值. 3) Not apply for diameter series 9 直径系列 9, 无规定值.
4) Apply to snap ring before mounting or after dismounting 适用于内外止动圈 安装前和拆卸后.

Table 2e. Class 5 Tolerances for Deep Groove Ball Bearings 5级精度的深沟球轴承

Inner Ring 内圈

d		Δd_{mp}		$V_{dp}^{2)}$ Diameter Series 9 0,1,2,3,4		V_{dmp}	K_{ia}	S_d	S_{ia}	ΔB_s		V_{Bs}	
over	incl.	high	low	max	max	max	max	max	max	high	Normal low	Modify ³⁾ low	max
mm		μm		μm		μm	μm	μm	μm	μm	μm		μm
0.6 ¹⁾	2.5	0	-5	5	4	3	4	7	7	0	-40	-250	5
2.5	10	0	-5	5	4	3	4	7	7	0	-40	-250	5
10	18	0	-5	5	4	3	4	7	7	0	-80	-250	5
18	30	0	-6	6	5	3	4	8	8	0	-120	-250	5
30	50	0	-8	8	6	4	5	8	8	0	-120	-250	5
50	80	0	-9	9	7	5	5	8	8	0	-150	-250	6
80	120	0	-10	10	8	5	6	9	9	0	-200	-380	7
120	180	0	-13	13	10	7	8	10	10	0	-250	-380	8
180	250	0	-15	15	12	8	10	11	13	0	-300	-500	10
250	315	0	-18	18	14	9	13	13	15	0	-350	-500	13
315	400	0	-23	23	18	12	15	15	20	0	-400	-630	15

1) Include in 0.6 包含0.6在内。 2) Not include in diameter series 7, 8 直径系列 7, 8 无规定值。

3) Apply for single inner ring, when they are mounted in pair 系指成对或成组安装时, 单个轴承的内圈。

Table 2f. Class 5 Tolerances for Deep Groove Ball Bearings 5级精度的深沟球轴承

Outer Ring 外圈

D		ΔD_{mp}		$V_{Dp}^{2)3)}$ Diameter Series 9 0,1,2,3,4		V_{Dmp}	K_{ea}	$S_D^{4)}$	$S_{ea}^{4)}$	S_{eat}	ΔC_s	V_{Cs}
over	incl.	high	low	max	max	max	max	S_{D1} max	max	max	ΔC_{1s} high	V_{C1s} low
mm		μm		μm		μm	μm	μm	μm	μm	μm	μm
2.5 ¹⁾	6	0	-5	5	4	3	5	8	8	11		5
6	18	0	-5	5	4	3	5	8	8	11		5
18	30	0	-6	6	5	3	6	8	8	11		5
30	50	0	-7	7	5	4	7	8	8	11		5
50	80	0	-9	9	7	5	8	8	10	14		6
80	120		-10	10	8	5	10	9	11	16		8
120	150	0	-11	11	8	6	11	10	13	18	Be same to B and Vbs of inner ring	8
150	180	0	-13	13	10	7	13	10	14	20	与同一轴承内圈的 B 和 Vbs 相同	8
180	250	0	-15	15	11	8	15	11	15	21		10
250	315	0	-18	18	14	9	18	13	18	25		11
315	400	0	-20	20	15	10	20	13	20	28		13
400	500	0	-23	23	17	12	23	15	23	33		15
500	630	0	-28	28	21	14	25	18	25	35		18
630	800	0	-35	35	26	18	30	20	30	42		20

1) Include in 2.5 包含2.5在内。 2) Not apply for diameter series 7 and 8 直径系列 7 和 8 无规定值。 3) Not apply for close type 闭式轴承无规定值。

4) Not apply for flanged bearings 不适合凸缘轴承。

Table 2g. Class 4 Tolerances for Deep Groove Ball Bearings 4级精度的深沟球轴承

Inner Ring 内圈

d		Δd_{mp}		$\Delta d_s^{(2)}$		$V_{dp}^{(3)}$		V_{dmp}	K_{ia}	S_d	S_{ia}	ΔB_s		V_{Bs}	
over	incl.	high	low	high	low	Diameter Series		max	max	max	max	max	max	Normal	Modify ⁽⁴⁾
mm		μm		μm		9	0,1,2,3,4	μm	μm	μm	μm	μm	low	low	max
0.6 ¹⁾	0.5	0	-4	0	-4	4	3	2	2.5	3	3	0	-40	-250	2.5
2.5	10	0	-4	0	-4	4	3	2	2.5	3	3	0	-40	-250	2.5
10	18	0	-4	0	-4	4	3	2	2.5	3	3	0	-80	-250	2.5
18	30	0	-5	0	-5	5	4	2.5	3	4	4	0	-120	-250	2.5
30	50	0	-6	0	-6	6	5	3	4	4	4	0	-120	-250	3
50	80	0	-7	0	-7	7	5	3.5	4	5	5	0	-120	-250	4
80	120	0	-8	0	-8	8	6	4	5	5	5	0	-200	-380	4
120	180	0	-10	0	-10	10	8	5	6	6	7	0	-250	-380	5
180	250	0	-12	0	-12	12	9	6	8	7	8	0	-300	-500	6

1) Include in 0.6 包含0.6在内。 2) Just apply for diameter series 0, 1, 2, 3, 4 仅适用于直径系列 0, 1, 2, 3, 4.

3) Not include in diameter series 7, 8 直径系列 7, 8 无规定值。 4) Apply for single inner ring, when they are mounted in pair 系指成对或成组安装时, 单个轴承的内圈。

Table 2h. Class 4 Tolerances for Deep Groove Ball Bearings 4级精度的深沟球轴承

Outer Ring 外圈

D		ΔD_{mp}		$\Delta D_s^{(2)(3)(4)}$		$V_{Dp}^{(3)(4)}$		V_{Dmp}	K_{ea}	$S_{D^{(5)}}$	$S_{ea^{(5)}}$	S_{ea1}	ΔC_s		V_{Cs}
over	incl.	high	low	high	low	Diameter Series		max	max	max	max	max	high	low	max
mm		μm		μm		9	0,1,2,3,4	μm	μm	μm	μm	μm	ΔC_{1s}		V_{C1s}
2.5 ¹⁾	6	0	-4	0	-4	4	3	2	3	4	5	7			2.5
6	18	0	-4	0	-4	4	3	2	3	4	5	7			2.5
18	30	0	-5	0	-5	5	4	2.5	4	4	5	7			2.5
30	50	0	-6	0	-6	6	5	3	5	4	5	7			2.5
50	80	0	-7	0	-7	7	5	3.5	5	4	5	7			3
80	120	0	-8	0	-8	8	6	4	6	5	6	8			4
120	150	0	-9	0	-9	9	7	5	7	5	7	10			5
150	180	0	-10	0	-10	10	8	5	8	5	8	11			5
180	250	0	-11	0	-11	11	8	6	10	7	10	14			7
250	315	0	-13	0	-13	13	10	7	11	8	10	14			7
315	400	0	-15	0	-15	15	11	8	13	10	13	18			8

1) Include in 2.5 包含2.5在内。 2) Just apply for diameter series 0, 1, 2, 3, 4 仅适用于直径系列 0, 1, 2, 3, 4.

3) Not apply for diameter series 7 and 8 直径系列 7 和 8 无规定值。 4) Not apply for close type 闭式轴承无规定值。 5) Not apply for flanged bearings 不适合凸缘轴承。

Table 2i. Class 2 Tolerances for Deep Groove Ball Bearings 2级精度的深沟球轴承

Inner Ring 内圈

d		Δd_{mp}		Δd_s		$V_{dp}^{(2)}$	V_{dmp}	K_{ia}	S_d	S_{ia}	ΔB_s			V_{Bs}
over	incl.	high	low	high	low	max	max	max	max	max	high	Normal low	Modify ⁴⁾ low	max
mm		μm		μm		μm	μm	μm	μm	μm	μm			μm
0.6 ¹⁾	2.5	0	-2.5	0	-2.5	2.5	1.5	1.5	1.5	1.5	0	-40	-250	1.5
2.5	10	0	-2.5	0	-2.5	2.5	1.5	1.5	1.5	1.5	0	-40	-250	1.5
10	18	0	-2.5	0	-2.5	2.5	1.5	1.5	1.5	1.5	0	-80	-250	1.5
18	30	0	-2.5	0	-2.5	2.5	1.5	2.5	1.5	2.5	0	-120	-250	1.5
30	50	0	-2.5	0	-2.5	2.5	1.5	2.5	1.5	2.5	0	-120	-250	1.5
50	80	0	-4	0	-4	4	2	2.5	1.5	2.5	0	-150	-250	1.5
80	120	0	-5	0	-5	5	2.5	2.5	2.5	2.5	0	-200	-380	2.5
120	150	0	-7	0	-7	7	3.5	2.5	2.5	2.5	0	-250	-380	2.5
150	180	0	-7	0	-7	7	3.5	5	4	5	0	-250	-380	4
180	250	0	-8	0	-8	8	4	5	5	5	0	-300	-500	5

1) Include in 0.6 包含0.6在内。 2) Not include in Diameter series 7, 8 直径系列 7, 8 无规定值。

Table 2j. Class 2 Tolerances for Deep Groove Ball Bearings 2级精度的深沟球轴承

Outer Ring 外圈

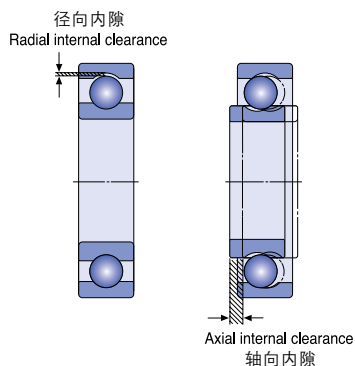
D		ΔD_{mp}		$\Delta D_s^{(2)}$		$V_{Dp}^{(2)}$	V_{Dmp}	K_{ea}	$S_D^{(3)}$	$S_{ea}^{(3)}$	S_{ea1}	ΔC_s		V_{Cs}
over	incl.	high	low	high	low	max	max	max	S_{D1}		max	ΔC_{1s}	low	V_{C1s}
mm		μm		μm		μm	μm	μm	μm	μm	μm	high	μm	max
2.5 ¹⁾	6	0	-2.5	0	-2.5	2.5	1.5	1.5	1.5	1.5	3			1.5
6	18	0	-2.5	0	-2.5	2.5	1.5	1.5	1.5	1.5	3			1.5
18	30	0	-4	0	-4	4	2	2.5	1.5	2.5	4			1.5
30	50	0	-4	0	-4	4	2	2.5	1.5	2.5	4			1.5
50	80	0	-4	0	-4	4	2	4	1.5	4	6	Be same to B and Vbs of inner ring		1.5
80	120	0	-5	0	-5	5	2.5	5	2.5	5	7			2.5
120	150	0	-5	0	-5	5	2.5	5	2.5	5	7		与同一轴承内圈 的 B 和 Vbs相同	
150	180	0	-7	0	-7	7	3.5	5	2.5	5	7			2.5
180	250	0	-8	0	-8	8	4	7	4	7	10			4
250	315	0	-8	0	-8	8	4	7	5	7	10			5
315	400	0	-10	0	-10	10	5	8	7	8	11			7

1) Include in 2.5 包含2.5在内。 2) Apply for diameter series 0, 1, 2, 3, 4 open and close type bearings 适用于直径系列 0, 1, 2, 3, 4 的开闭式轴承。

3) Not apply for flanged bearings 不适合凸缘轴承。

1.4 Clearance

Bearing internal clearance is the distance which one bearing ring can moved relative to the other in radial direction (redial clearance) or axial direction (axial clearance). Radial/axial clearance can be determined by calculation, once axial /radial clearance is measured. Operational clearance is a clearance that has reached its operational temperature. Due to the load and heat generated during operation, operation clearance will be smaller than internal clearance. Operational clearance is highly correlated to life, noise, and vibration of bearings. See table as below. (Table 3a)



For special applications using miniature deep groove ball bearing and electric motor bearing, internal clearance differ from standard, see table as below. (Table 3b)

1.4 游隙

轴承的游隙主要指轴承的装配游隙。装配游隙指轴承未安装前，将其内圈或者外圈的一方固定，然后将未被固定的一方做径向或者轴向移动时的最大移动量。根据移动的方向，可分为径向游隙和轴向游隙。轴向游隙和径向游隙可以通过计算公式相互验证。轴承的工作游隙指在轴承安装后，有预载荷的情况下的轴承游隙。由于受到轴和轴承座的作用使得轴承的游隙减小，因此轴承的工作游隙通常比轴承装配游隙小。轴承的工作游隙的大小对于轴承疲劳寿命、噪音、震动等都有直接的影响。轴承的装配游隙参照下表：(表格3a)

对于微型轴承和电机轴承，由于其特殊性，游隙的规定和常用轴承也不尽相同，具体参照下表：(表格3b)

Table 3a: Radial internal clearances in deep groove ball bearings

Nominal bore diameter		Clearance C2		CN		C3		C4		C5		
d	over	incl.	min	max	min	max	min	max	min	max	min	max
mm			μm									
10	only		0	7	2	13	8	23	14	29	20	37
10		18	0	9	3	18	11	25	18	33	25	45
18		24	0	10	5	20	13	28	20	36	28	48
24		30	1	11	5	20	13	28	23	41	30	53
30		40	1	11	6	20	15	33	28	46	40	64
40		50	1	11	6	23	18	36	30	51	45	73
50		65	1	15	8	28	23	43	38	61	55	90
65		80	1	15	10	30	25	51	46	71	65	105
80		100	1	18	12	36	30	58	53	84	75	120
100		120	2	20	15	41	36	66	61	97	90	140
120		140	2	23	18	48	41	81	71	114	105	160
140		160	2	23	18	53	46	91	81	130	120	180

Table 3a: Radial internal clearances in deep groove ball bearings

Nominal bore diameter		Clearance C2		CN		C3		C4		C5	
over	incl.	min	max	min	max	min	max	min	max	min	max
mm		μm									
160	180	2	25	20	61	53	102	91	147	135	200
180	200	2	30	25	71	63	117	107	163	150	230
200	225	2	35	25	85	75	140	125	195	175	265
225	250	2	40	30	95	85	160	145	225	205	300
250	280	2	45	35	105	90	170	155	245	225	340
280	315	2	55	40	115	10	190	175	270	245	370
315	355	3	60	45	125	110	210	195	300	275	410
355	400	3	70	55	145	130	240	225	340	315	460
400	450	3	80	60	170	150	270	250	380	350	510
450	500	3	90	70	190	170	300	280	420	390	570
500	560	10	100	80	210	190	330	310	470	440	630
560	630	10	110	90	230	210	360	340	520	490	690
630	710	20	130	110	260	240	400	380	570	540	760
710	800	20	140	120	290	270	450	430	630	600	840

Remarks: To obtain the measured values, use the clearance correction for radial clearance increase caused by the measuring load in the table below.
For the C2 clearance class, the smaller value should be used for bearings with minimum clearance and the larger value for bearings near the maximum clearance range.

Table 3b: Radial internal clearances in extra small and miniature ball bearings

Clearance Symbol	MC1		MC2		MC3		MC4		MC5		MC6	
	min	max	min	max	min	max	min	max	min	max	min	max
μm												
Clearance	0	5	3	8	5	10	8	13	13	20	20	28

Remarks: 1. The standard clearance is MC3.
2. To obtain the measured value, add correction amount in the table below.

Clearance Symbol	MC1	MC2	MC3	MC4	MC5	MC6
μm						
Clearance						
Correction Value	1	1	1	1	2	2

The measuring loads are as follows:
For miniature ball bearings* 2.5N {0.25kgf}
For extra small ball bearings* 4.4N {0.45kgf}

Table 3c: Deep groove ball bearings for electric motors

Nominal bore diameter		Clearance CM		Remarks Recommended fit	
d over	incl.	min	max	Shaft	Housing Bore
mm		μm			
10 (incl)	18	4	11	js5 (j5)	
18	30	5	12		
30	50	9	17		
50	80	12	22	k5	H6~7
80	100	18	30		or
					JC6~7
					(J6~7)
100	120	18	30		
120	160	24	38	m5	

Remarks: The radial clearance increase caused by the measuring load is equal to the correction amount for CN clearance in the remarks under table 3a

1.5 Bearing Life Calculation

In modern technology, it is important to control the downtime of machines during operations to reduce the disruption to production flow. In order to achieve the required, periodic maintenance is necessary. Bearing life calculation becomes an important factor to determine when the maintenance is to be carried out.

Bearing Life

When bearing rotates, the inner, outer ring and rolling elements are constantly loaded. This produces material fatigue and eventually bearing failure. The total number of revolutions before a failure occurs is called the basic rating life.

Life of individual bearings varies considerably, even if they are of the same size, same material, same heat treatment and are under the same operating condition.

Statistically, the total number of revolutions reached or exceeded by 90% of a sufficiently large group of apparently identical bearings before the first evidence of material fatigue occurs is called the basic rating life.

1.5 寿命计算

现代工业的流水线设计要求设备的故障是可控的，这就需要定期的维护。轴承的计算寿命是制定维护周期的一个重要参数。

Basic Dynamic Load Rating

The basic dynamic load rating of a bearing with rotating inner ring and stationary outer ring is that load of constant magnitude and size which a sufficiently large group of apparently identical bearings can endure for a basic rating life of one million revolutions.

Radial bearings take central load. Values given for C in the dimension tables of this catalogue are for standard high chromium steel. 80% to 85% of the chromium steel values should be used for stainless steel.

Life Formula

The equation for the basic rating life for dynamically loaded ball bearings is as follow:

$$L_{10} = \left(\frac{C_r}{P} \right)^3 \quad (\times 10^6 \text{ Revolutions})$$

$$L_{10h} = \frac{16666}{n} \cdot \left(\frac{C_r}{P} \right)^3 \quad (\text{Hours})$$

whereby : L_{10} = Basic Rating Life

C_r = Basic Dynamic Load Rating (kgf)

n = R.P.M. (Revolutions Per Minute)

f_n = Speed Factor

L_{10h} = Basic Rating Life in Operating Hours

P = Equivalent Load (kgf)

f_h = Life Factor

$$L_{10h} = 500 \cdot f_n^3, \quad f_h = f_n \cdot \frac{C_r}{P}, \quad f_n = \left(\frac{33.3}{n} \right)^{1/3}$$



Examples of Rating Life L_{10h} Values Used:

Operating Conditions	Basic Rating Life L_{10h}
Infrequent operation.	500
Short or intermittent operation. Failure has little effect on function.	4,000 ~ 8,000
Intermittent operation. Failure has significant effect on function.	8,000 ~ 12,000
8 hours of non-continuous operation.	12,000 ~ 20,000
8 hours of continuous operation.	20,000 ~ 30,000
24 hours continuous operation.	40,000 ~ 60,000
24 hours of guaranteed trouble-free operation.	100,000 ~ 200,000

Adjusted Life Formula

The above life formula is for general use. In cases where a reliability of over 90% is required and where influences apart from load and speed or operating frequency should be taken into account for the rating life, ISO 281, 1990 gives an extended life formula:

$$L_{na} = a_1 \times a_2 \times a_3 \times \left(\frac{C_r}{P} \right)^3 \quad (\times 10^6 \text{ Revolutions})$$

whereby : L_{na} = Adjusted rating life in millions of revolutions with a reliability of (100-n) % (n=the reliability rate)

C_r = Basic Dynamic Load Rating (kgf)

P = Equivalent Dynamic Load (kgf)

a_1 = Factor for a reliability other than 90%

a_2 = Factor for non-conventional materials

a_3 = Factor for non-conventional operating conditions, in particular lubrication

(1) Reliability Factor a_1

When a reliability of over 90% is required, the corresponding factor should be selected from the following table.

Reliability Factor a_1

Reliability (%)	90	91	92	93	94	95	96	97	98	99	(99.6)	(9.99)
a_1	1.00	0.92	0.84	0.77	0.64	0.62	0.53	0.44	0.33	0.21	(0.10)	(0.037)

(2) Material Factor a_2

Improvement in manufacturing techniques for raw material and for heat treatment of components have led to an extended fatigue life for bearings.

Our standard bearing uses material of high-quality bearing steel leading to an extended life for bearings.

The basic load ratings given in this catalogue have been established by taking this longer life into consideration. This gives an increase in the operating life in hours of a factor of 2.2 and a factor of 1.3 for the load carrying capacity. The material factor $a_2 = 1$.

(3) Operating Conditions Factor a_3

This is an adjustment factor to meet non-conventional operating conditions for lubrication, temperature and load. Under good lubrication conditions with a permanent oil film between rolling elements and rings, the factor $a_2 = 1$. In unfavourable conditions ($d_m \cdot n \leq 10,000$), a factor $a_3 < 1$ must be selected. d_m = mean bearing diameter $(D+d)/2$

n = operating speed

At temperatures above 120°C, greater dimensional changes occur and the material hardness deteriorates which affects the bearing life.

The operating factor f_t for temperature can be taken from the following table:

Operating Temperature and Life Compensation Factor f_t

Bearing Temperature (°C)	120	150	175	200	225	250	275	300
Temperature Factor (f_t)	1.00	0.90	0.85	0.75	0.65	0.60	0.52	0.45

Heat stabilized bearings, where the dimensions are stable above 120°C, are available on request.

2.1 Mounting

According to research, statistics on bearings failures are as follows

- a) Improper mounting 16%
- b) Improper maintenance/lubrication 36%
- c) Foreign objects in bearings 14%
- d) Normal failure (fatigue life) 34%

As bearings are precision components, proper mounting is very important for smooth operations, precision and life of bearings. As tolerance of mounting surface is critical to the performance and life of bearings, please refer to table as below.

2.1 安装

大量调查显示：在所有轴承失效中，只有34%的轴承是由于材料的疲劳失效（正常的寿命下的失效）。36%是由于润滑不当，14%是由于污染，16%是由于产品的安装不当。

轴承是精密机械零件，其正确安装与否，直接影响轴承的精度，寿命和性能。所谓的安装到位实际就是将轴承的安装尽可能的接近轴承理论设计的安装状态。因此安装面的精度决定了这一安装状态可能的接近程度。下表是我们提供的轴承安装面的精度等级表便于安装面的加工和轴承的安装。

Fits for Solid Steel Shafts

Radial bearings with cylindrical bore (except high-precision bearings)

Calculations and graphics presentation

Conditions ¹⁾	Examples	Shaft diameter, mm Ball bearings ¹⁾	Tolerance class
Rotating inner ring load or direction of load indeterminate			
Light and variable loads ($P \leq 0,05 C$)	Conveyors, lightly loaded gearbox bearings	≤ 17	js5 (h5) ²⁾
		(17) to 100	j6 (j5) ²⁾
		-	k5
		(100) to 140	k6
Normal and heavy loads ($P > 0,05 C$)	Bearing applications generally, electric motors, turbines, pumps, gearing, wood-working machines, wind mills	≤ 10	js5
		(10) to 17	j5 (js5) ²⁾
		(17) to 100	k5 ³⁾
		-	k6
		(100) to 140	m5
		(140) to 200	m6
		-	n5 ⁴⁾
		(200) to 500	n6 ⁴⁾
		-	p6 ⁵⁾
		> 500	p7 ⁴⁾
Heavy to very heavy loads and shock loads with difficult working conditions ($P > 0,1 C$)	Axleboxes for heavy railway vehicles, traction motors, rolling mills	-	r6 ⁴⁾
		-	r7 ⁴⁾
		-	n5 ⁴⁾
		-	n6 ⁴⁾
		-	p6 ⁶⁾
		-	r6 ⁷⁾
		-	s6 _{min} ± IT6/2
		-	s7 _{min} ± IT7/2

Radial bearings with cylindrical bore (except high-precision bearings)

Calculations and graphics presentation

Conditions ¹⁾	Examples	Shaft diameter, mm Ball bearings ¹⁾	Tolerance class
High demands on running accuracy with light loads ($P \leq 0,05 C$)	Machine tools	8 to 240 - - - -	js4 js4 (j5) ⁹⁾ k4 (k5) ⁹⁾ m5 n5
Stationary inner ring load			
Easy axial displacement of the inner ring on the shaft necessary	Wheels on non-rotating axles		g6 ¹⁰⁾
Easy axial displacement of the inner ring on the shaft unnecessary	Tension pulleys, rope sheaves		h6
Axial loads only			
	Bearing applications of all kinds	≤ 250 > 250	j6 js6

1) The tolerance class in brackets applies to stainless steel bearings.

2) Bearings with radial internal clearance greater than Normal may be necessary.

3) Bearings with radial internal clearance greater than Normal are recommended for $d \leq 150$ mm. For $d > 150$ mm bearings with radial internal clearance greater than Normal may be necessary.

4) Bearings with radial internal clearance greater than Normal are recommended.

5) The tolerance class f6 can be selected for large bearings to provide easy displacement.

6) Refer to table 5 for definition of tolerance class.

We will introduce some appropriate mounting ways and tools as below.

2.1.1 Cold Mounting

Small bearings are often mounted by using hammer and absorber. Absorber are intermediaries like brass or aluminum tube. Hammer should not have direct contact with bearings.

Mounting without intermediaries are considered improper mounting. If hammer does come into contact with bearings. The impact will cause invisible crack in the bearings which decrease the life of bearings. If mounting force reaches raceway and steel balls, the rotation of bearings will not be smooth, hence, increasing noise and decreasing life of bearings. When bearings are mounted on shaft, force should go through inner ring to shaft. When bearings are mounted in housing, force should go through outer ring to housing.

轴承的安装应该采用正确的方法和适当的工具。在此简单介绍常用的轴承正确安装方式和误区。

2.1.1 冷安装

小型轴承最常用的安方式是用锤子和减震管来安装。但是一定要意：不能用锤子直接敲击轴承需要铜管等其它软金属减震管来降低锤击产生的冲击，尽量实现力的平稳传递。

注意事项：这种安装方式对于安装工具要求很低，但也是最容易出现安装错误。经常会出现锤子直接敲击轴承的现象，大多数情况下，会在轴承内部产生隐藏裂纹，降低轴承寿命；严重的情况是轴承在安装中已经碎裂。除此之外，安装中力的传递不能经过轴承的工作面（滚道和钢球），以免产生损伤造成轴承转动中的不平稳和噪音，影响轴承的使用寿命。既轴承和轴为紧配合时，力应直接通过内圈作用在轴上。轴承和轴承座紧配合时，力应通过外圈直接作用在轴承座上。



Using screw or hydraulic method, Special mounting equipment can avoid making impact load and invisible crack in bearings. This method is often used in small and medium bearings.

对于中小型轴承可以使用专业的轴承安装设备，利用螺纹或者油压，可以避免冲击载荷产生，降低轴承由于安装而在轴承的内部产生裂纹的可能。

注意事项：由于专业的设备，成本较高。

2.1.2 Heat Mounting

As we all know, heating expand and cooling contrast is natural law. Before mounting, we can expand bearings using electromagnetism heating or oil heating. This method are commonly used in mounting medium and big bearings.

a) Oil Bath Heating

In the middle of oil tank, a sieve has to be used in order to prevent dirt from contaminating the bearing. Place bearings in the sieve and submerge bearings into the oil. When temperature reach 100 °C remove the bearing and begin mounting.

Note: to remove bearings from hot oil, you can tie a rope on bearing for easy. Temperature shouldn't be above 100 °C.

b) Electromagnetism Heating

Electromagnetism heating is a method which produce whirlpool to heat bearings. This way not only heat open bearings but also heat sealed bearings. Considering the material of grease and seal, the temperature should be below 80 °C.

2.1.2 热安装

中大型轴承主要使用电磁或者油池加热轴承，利用热胀冷缩的原理来实现轴承的无损安装。

a) 油浴加热

使用油池加热，要在油池中设置过滤网，将轴承放置在滤网上，便于轴承在油中均匀受热，同时也减少油中杂质的侵入的机率。油浴加热只可以用于开式轴承并且加热要注意温度不能超过100摄氏度。

b) 电磁加热

电磁加热是利用电磁感应轴承内部生成涡流，产生热量来加热轴承。电磁加热除了可以加热开式轴承外还可以加热闭式轴承。考虑轴承的润滑脂和密封圈的材料，加热温度应该低于80摄氏度。

2.2 Maintenance

According to working environment, bearings should be frequently checked for cleanliness and grease need to be changed by applying clean grease. Maintenance is a very important factor to life of bearing.

Another reason why grease need to be frequently changed is due to the fact that properties of grease will change after a period of time due to exposure of working environment. Good lubrication (reduce friction) and maintenance will greatly enhance the life of bearings.

After a period of operation, bearings should be dismounted. After dismounting, wash the bearings in cleaning agent/kerosene, at the same time, removing the grease. After cleaning, checked for rotation accuracy, dimension accuracy, internal clearance and physical appearance of steel ball and raceway.

2.2 日常维护

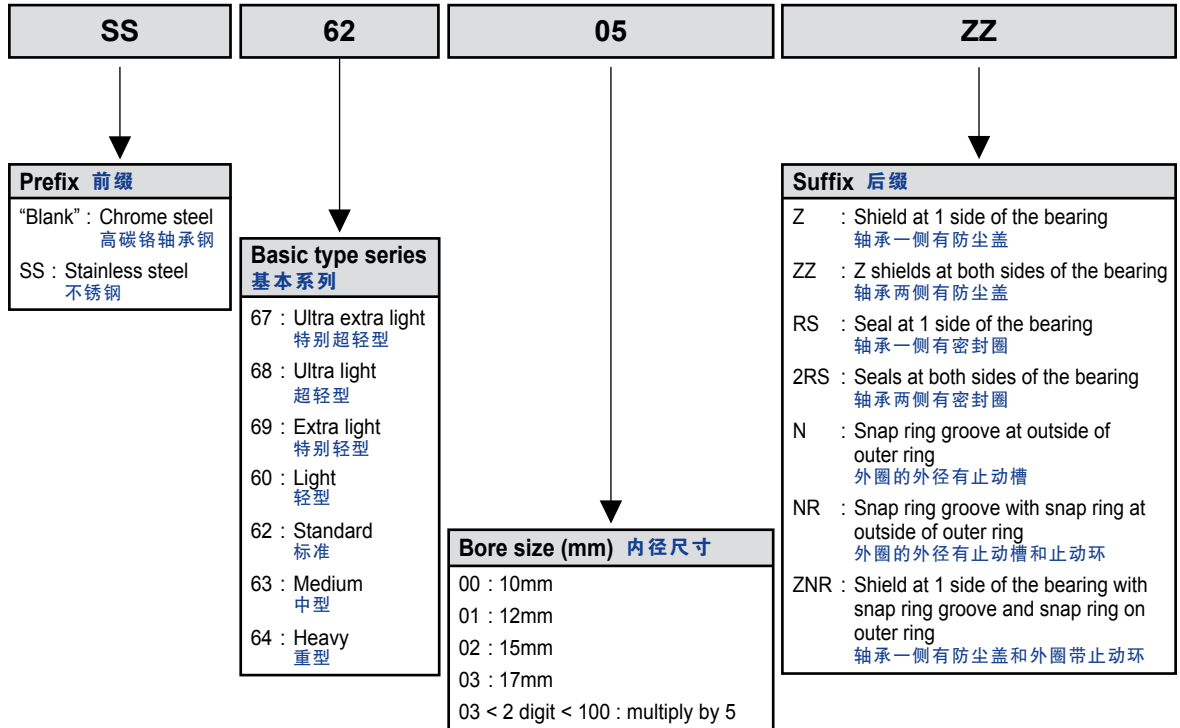
轴承的维护指轴承安装之后，根据轴承的工作环境和轴承的性能对于轴承进行周期性的油脂更换、清洗和性能检验工作。轴承的定期维护对于轴承的使用寿命有着重要的影响。

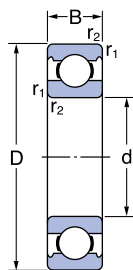
定期对轴承使用的油脂进行更换。润滑可以减少轴承内部的摩擦和磨损，延长轴承的使用寿命。但润滑油脂有产品老化的特性。受时间和环境的影响，产品的性能会降低甚至变质，因此需要定期更换润滑油脂。

轴承的清洗和性能检验。定期的将轴承拆卸，对于其旋转精度，尺寸精度，内部游隙和钢球，滚道面等进行检验，确定轴承能否继续使用。对于拆解下来的轴承，首先将其上附着的润滑油脂，是否变质，进行简单的判定，然后将轴承放置在清洗剂（常用煤油）中进行清洗。除去附着的老化油脂，减少老化油脂对于新注入油脂的影响。

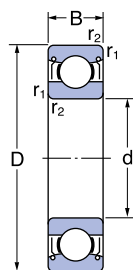
轴承的维护周期，主要根据轴承的使用环境。例如：温度、湿度、尘埃和轴承的旋转速度等因素的综合影响。

■ Prefix & Suffix 前缀与后缀

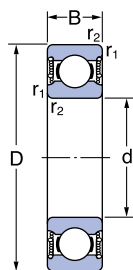




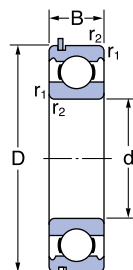
OPEN
With recessed outer
ring shoulder
开式



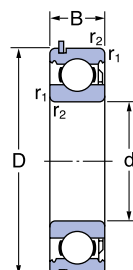
SHIELDS - ZZ
轴承两侧有防尘盖



SEALS - 2RS
轴承两侧有密封圈



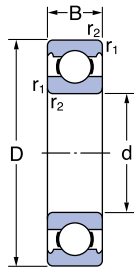
Snap ring groove
and snap ring in outer
ring - NR
轴承外圈有止动槽和
止动环



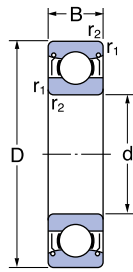
One Z shield,
snap ring groove and
snap ring - ZNR
轴承一侧有防尘盖和
带止动环

Basic Dimensions 基本尺寸			Basic Load Ratings 基本载荷		Limiting Speed 极限转速		Chamfer Dimension 外角尺寸	Mass 重量	Designation 型号				
d mm	D mm	B mm	Dynamic 动载荷 C kN	Static 静载荷 C ₀ kN	Grease 脂 r/min	Oil 油 r/min	r _{1,2} mm	kg	Open 开式	Shields ZZ 防尘盖 型 ZZ	Seals 2RS 密封圈 型 2RS	With Snap Ring Groove N 带止动环 槽 N	With Snap Ring NR 带止动环 NR
10	15	3	0.540	0.200	30,600	36,720	0.2	0.002	6700	ZZ	2RS	-	-
10	19	5	1.260	0.680	23,400	30,600	0.3	0.005	6800	ZZ	2RS	N	NR
10	22	6	2.970	1.260	22,500	28,800	0.3	0.011	6900	ZZ	2RS	N	NR
10	26	8	4.130	1.790	18,000	25,200	0.3	0.019	6000	ZZ	2RS	N	NR
10	26	12	4.160	1.770	17,100	-	0.3	0.025	63000	-	2RS	-	-
10	28	8	4.130	1.790	16,200	23,400	0.3	0.022	16100	ZZ	-	-	-
10	30	9	4.590	2.150	17,100	23,400	0.6	0.032	6200	ZZ	2RS	N	NR
10	30	14	4.570	2.130	15,300	-	0.6	0.040	62200	-	2RS	-	-
10	35	11	6.890	3.140	16,200	21,600	0.6	0.053	6300	ZZ	2RS	N	NR
10	35	17	7.260	3.060	13,500	-	0.6	0.060	62300	-	2RS	-	-
12	18	4	0.580	0.250	28,800	34,560	0.2	0.002	6701	ZZ	2RS	-	-
12	21	5	1.260	0.810	19,800	27,000	0.3	0.007	6801	ZZ	2RS	N	NR
12	24	6	3.050	1.340	18,000	25,200	0.3	0.013	6901	ZZ	2RS	N	NR
12	28	7	4.580	2.150	17,100	23,400	0.3	0.019	16001	ZZ	-	-	-
12	28	8	4.590	2.150	17,100	23,400	0.3	0.022	6001	ZZ	2RS	N	NR
12	28	12	4.570	2.130	15,300	-	0.3	0.029	63001	-	2RS	-	-
12	32	10	6.140	2.750	16,200	21,600	0.6	0.035	6201	ZZ	2RS	N	NR
12	32	14	6.210	2.790	13,500	-	0.6	0.045	62201	-	2RS	-	-
12	37	12	8.750	4.580	15,300	19,800	1.0	0.057	6301	ZZ	2RS	N	NR
12	37	17	8.780	3.740	12,600	-	1.0	0.070	62301	-	2RS	-	-
15	21	4	0.590	0.270	24,300	29,160	0.2	0.004	6702	ZZ	2RS	-	-
15	24	5	1.730	1.070	18,000	25,200	0.3	0.008	6802	ZZ	2RS	N	NR
15	28	7	3.600	1.820	17,100	23,400	0.3	0.018	6902	ZZ	2RS	N	NR
15	32	8	5.040	2.300	16,200	21,600	0.3	0.025	16002	ZZ	-	-	-
15	32	9	5.030	2.570	16,200	21,600	0.3	0.031	6002	ZZ	2RS	N	NR
15	32	13	5.040	2.570	12,600	-	0.3	0.039	63002	-	2RS	-	-
15	35	11	6.890	3.350	15,300	19,800	0.6	0.045	6202	ZZ	2RS	N	NR
15	35	14	7.020	3.380	11,700	-	0.6	0.054	62202	-	2RS	-	-
15	42	13	10.350	4.880	14,400	18,000	1.0	0.080	6302	ZZ	2RS	N	NR
15	42	17	10.260	4.860	10,800	-	1.0	0.110	62302	-	2RS	-	-
17	23	4	0.630	0.320	21,600	25,920	0.2	0.002	6703	ZZ	2RS	-	-
17	26	5	1.970	1.160	17,100	23,400	0.3	0.008	6803	ZZ	2RS	N	NR

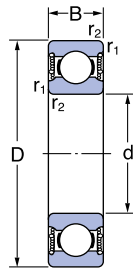
单列公制深沟球轴承 Single Row Deep Groove Ball Bearings - Metric



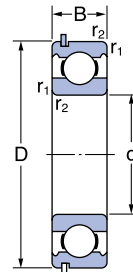
OPEN
With recessed outer
ring shoulder
开式



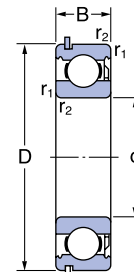
SHIELDS - ZZ
轴承两侧有防尘盖



SEALS - 2RS
轴承两侧有密封圈

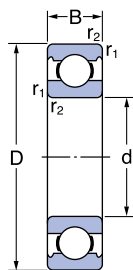


Snap ring groove
and snap ring in outer
ring - NR
轴承外圈有止动槽和
止动环

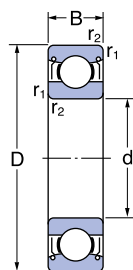


One Z shield,
snap ring groove and
snap ring - ZNR
轴承一侧有防尘盖和
带止动环

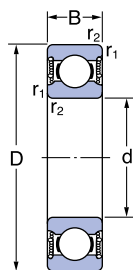
Basic Dimensions 基本尺寸			Basic Load Ratings 基本载荷		Limiting Speed 极限转速		Chamfer Dimension 外角尺寸	Mass 重量	Designation 型号				
d mm	D mm	B mm	Dynamic 动载荷 C kN	Static 静载荷 C ₀ kN	Grease 脂 r/min	Oil 油 r/min	r _{1,2} mm	kg	Open 开式	Shields ZZ 防尘盖 型 ZZ	Seals 2RS 密封圈 型 2RS	With Snap Ring Groove N 带止动环 槽 N	With Snap Ring NR 带止动环 NR
17	30	7	3.870	2.090	16,200	21,600	0.3	0.020	6903	ZZ	2RS	N	NR
17	35	8	6.140	3.050	15,300	19,800	0.3	0.027	16003	ZZ	-	-	-
17	35	10	5.400	2.930	15,300	19,800	0.3	0.040	6003	ZZ	2RS	N	NR
17	35	14	5.450	2.930	11,700	-	0.3	0.052	63003	-	2RS	-	-
17	40	12	8.630	4.310	14,400	18,000	0.6	0.064	6203	ZZ	2RS	N	NR
17	40	16	8.610	4.280	10,800	-	0.6	0.083	62203	-	2RS	-	-
17	47	14	12.150	5.930	13,500	17,100	1.0	0.109	6303	ZZ	2RS	N	NR
17	47	19	12.150	5.900	9,900	-	1.0	0.150	62303	-	2RS	-	-
17	62	17	20.250	9.720	9,900	13,500	1.0	0.268	6403	ZZ	2RS	N	NR
20	27	4	0.650	0.360	18,900	22,680	0.2	0.006	6704	ZZ	2RS	-	-
20	32	7	3.110	2.030	15,300	19,800	0.3	0.200	6804	ZZ	2RS	N	NR
20	37	9	5.900	3.240	15,300	19,800	0.3	0.040	6904	ZZ	2RS	N	NR
20	42	8	7.110	4.010	13,500	17,100	0.3	0.050	16004	ZZ	-	-	-
20	42	12	8.450	4.520	13,500	17,100	0.6	0.068	6004	ZZ	2RS	N	NR
20	42	16	8.430	4.500	9,900	-	0.6	0.086	63004	-	2RS	-	-
20	47	14	11.520	5.990	12,600	16,200	1.0	0.103	6204	ZZ	2RS	N	NR
20	47	18	11.430	5.900	9,000	-	1.0	0.130	62204	-	2RS	-	-
20	52	15	14.220	7.100	11,700	15,300	1.0	0.142	6304	ZZ	2RS	N	NR
20	52	21	14.310	7.020	8,550	-	1.0	0.200	62304	-	2RS	-	-
20	72	19	27.900	13.680	8,550	11,700	1.0	0.400	6404	ZZ	2RS	N	NR
22	44	12	8.460	4.550	15,300	18,000	0.6	0.074	60/22	ZZ	2RS	N	NR
22	50	14	11.610	6.120	12,600	14,400	1.0	0.119	62/22	ZZ	2RS	N	NR
22	56	16	16.560	8.330	11,700	14,400	1.0	0.179	63/22	ZZ	2RS	N	NR
25	32	4	0.690	0.430	15,120	18,000	0.2	0.007	6705	ZZ	2RS	-	-
25	37	7	3.330	2.390	13,500	17,100	0.3	0.022	6805	ZZ	2RS	N	NR
25	42	9	6.630	4.100	12,600	16,200	0.3	0.050	6905	ZZ	2RS	N	NR
25	47	8	7.580	4.640	11,700	15,300	0.3	0.060	16005	-	-	-	-
25	47	12	9.000	5.270	11,700	15,300	0.6	0.078	6005	ZZ	2RS	N	NR
25	47	16	10.080	5.900	8,550	-	0.6	0.100	63005	-	2RS	-	-
25	52	15	12.600	7.100	10,800	14,400	1.0	0.127	6205	ZZ	2RS	N	NR
25	52	18	12.600	7.020	7,650	-	1.0	0.150	62205	-	2RS	-	-
25	62	17	19.980	10.350	9,000	12,600	1.0	0.219	6305	ZZ	2RS	N	NR



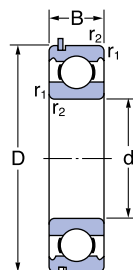
OPEN
With recessed outer
ring shoulder
开式



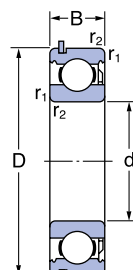
SHIELDS - ZZ
轴承两侧有防尘盖



SEALS - 2RS
轴承两侧有密封圈



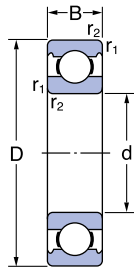
Snap ring groove
and snap ring in outer
ring - NR
轴承外圈有止动槽和
止动环



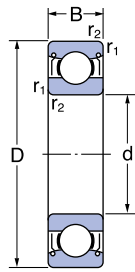
One Z shield,
snap ring groove and
snap ring - ZNR
轴承一侧有防尘盖和
带止动环

Basic Dimensions 基本尺寸			Basic Load Ratings 基本载荷		Limiting Speed 极限转速		Chamfer Dimension 外角尺寸	Mass 重量	Designation 型号				
d mm	D mm	B mm	Dynamic 动载荷 C kN	Static 静载荷 C ₀ kN	Grease 脂 r/min	Oil 油 r/min	r _{1,2} mm	kg	Open 开式	Shields ZZ 防尘盖 型 ZZ	Seals 2RS 密封圈 型 2RS	With Snap Ring Groove N 带止动环 槽 N	With Snap Ring NR 带止动环 NR
25	62	24	20.250	10.440	6,750	-	1.0	0.320	62305	-	2RS	-	-
25	80	21	34.380	17.280	7,650	9,900	1.5	0.529	6405	ZZ	2RS	N	NR
28	52	12	11.250	6.660	12,600	14,400	0.6	0.096	60/28	ZZ	2RS	N	NR
28	58	16	14.940	8.550	10,800	12,600	1.0	0.175	62/28	ZZ	2RS	N	NR
28	68	18	24.030	12.600	9,000	11,700	1.0	0.287	63/28	ZZ	2RS	N	NR
30	42	7	3.600	2.840	10,800	14,400	0.3	0.026	6806	ZZ	2RS	N	NR
30	47	9	6.800	4.580	10,800	14,400	0.3	0.060	6906	ZZ	2RS	N	NR
30	55	9	10.080	5.630	9,000	12,600	0.3	0.085	16006	-	-	-	-
30	55	13	11.880	7.470	9,000	12,600	1.0	0.110	6006	ZZ	2RS	N	NR
30	55	19	11.970	7.470	7,200	-	1.0	0.160	63006	-	2RS	-	-
30	62	16	17.550	10.350	8,550	11,700	1.0	0.200	6206	ZZ	2RS	N	NR
30	62	20	17.550	10.080	6,750	-	1.0	0.240	62206	-	2RS	-	-
30	72	19	24.300	13.680	8,100	10,800	1.0	0.349	6306	ZZ	2RS	N	NR
30	72	27	25.290	14.400	5,670	-	1.0	0.480	62306	-	2RS	-	-
30	90	23	42.750	22.050	7,200	9,000	1.5	0.710	6406	ZZ	2RS	N	NR
32	58	13	13.590	8.240	10,800	12,600	1.0	0.122	60/32	ZZ	2RS	N	NR
32	65	17	18.630	10.440	9,000	10,800	1.0	0.225	62/32	ZZ	2RS	N	NR
32	75	20	26.910	15.300	8,100	9,900	1.0	0.389	63/32	ZZ	2RS	N	NR
35	47	7	3.710	3.110	9,000	12,600	0.3	0.030	6807	ZZ	2RS	N	NR
35	55	10	8.600	6.170	8,550	11,700	0.6	0.086	6907	ZZ	2RS	N	NR
35	62	9	10.350	7.920	8,100	10,800	0.3	0.100	16007	-	-	-	-
35	62	14	14.580	9.450	8,100	10,800	1.0	0.148	6007	ZZ	2RS	N	NR
35	62	20	14.310	9.180	6,300	-	1.0	0.210	63007	-	2RS	-	-
35	72	17	22.950	13.680	7,650	9,900	1.0	0.288	6207	ZZ	2RS	N	NR
35	72	23	22.950	13.770	5,670	-	1.0	0.370	62207	-	2RS	-	-
35	80	21	29.880	17.280	7,200	9,000	1.5	0.455	6307	ZZ	2RS	N	NR
35	80	31	29.880	17.100	5,400	-	1.5	0.660	62307	-	2RS	-	-
35	100	25	51.120	26.550	6,030	7,650	1.5	0.926	6407	ZZ	2RS	N	NR
40	52	7	3.960	2.930	8,550	11,700	0.3	0.034	6808	ZZ	2RS	N	NR
40	62	12	10.800	8.090	8,100	10,800	0.6	0.110	6908	ZZ	2RS	N	NR
40	68	9	11.250	9.180	7,650	9,900	0.3	0.130	16008	-	-	-	-
40	68	15	15.300	10.620	7,650	9,900	1.0	0.185	6008	ZZ	2RS	N	NR

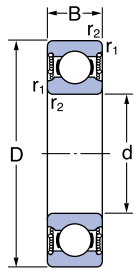
单列公制深沟球轴承 Single Row Deep Groove Ball Bearings - Metric



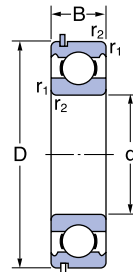
OPEN
With recessed outer
ring shoulder
开式



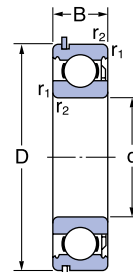
SHIELDS - ZZ
轴承两侧有防尘盖



SEALS - 2RS
轴承两侧有密封圈

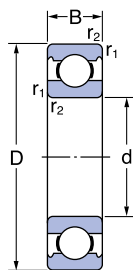


Snap ring groove
and snap ring in outer
ring - NR
轴承外圈有止动槽和
止动环

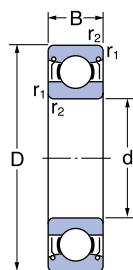


One Z shield,
snap ring groove and
snap ring - ZNR
轴承一侧有防尘盖和
带止动环

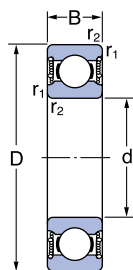
Basic Dimensions 基本尺寸			Basic Load Ratings 基本载荷		Limiting Speed 极限转速		Chamfer Dimension 外角尺寸	Mass 重量	Designation 型号				
d mm	D mm	B mm	Dynamic 动载荷 C kN	Static 静载荷 C ₀ kN	Grease 脂 r/min	Oil 油 r/min	r _{1,2} mm	kg	Open 开式	Shields ZZ 防尘盖 型 ZZ	Seals 2RS 密封圈 型 2RS	With Snap Ring Groove N 带止动环 槽 N	With Snap Ring NR 带止动环 NR
40	68	21	15.120	10.440	5,670	-	1.0	0.260	63008	-	2RS	-	-
40	80	18	26.550	16.200	7,200	9,000	1.0	0.368	6208	ZZ	2RS	N	NR
40	80	23	27.630	17.100	5,040	-	1.0	0.440	62208	-	2RS	-	-
40	90	23	36.720	21.600	6,300	8,100	1.5	0.639	6308	ZZ	2RS	N	NR
40	90	33	36.900	21.600	4,500	-	1.5	0.890	62308	-	2RS	-	-
40	110	27	58.950	33.750	5,670	7,200	2.0	1.221	6408	ZZ	2RS	N	NR
45	58	7	4.190	3.890	7,650	9,900	0.3	0.040	6809	ZZ	2RS	N	NR
45	68	12	11.520	8.750	7,650	9,900	0.6	0.140	6909	ZZ	2RS	N	NR
45	75	10	11.610	9.180	7,200	9,000	0.6	0.170	16009	-	-	-	-
45	75	16	18.900	13.320	7,200	9,000	1.0	0.230	6009	ZZ	2RS	N	NR
45	75	23	18.720	13.140	5,040	-	1.0	0.340	63009	-	2RS	-	-
45	85	19	28.350	18.450	6,300	8,100	1.0	0.416	6209	ZZ	2RS	N	NR
45	85	23	29.880	19.440	4,500	-	1.0	0.480	62209	-	2RS	-	-
45	100	25	47.520	28.620	5,670	7,200	1.5	0.837	6309	ZZ	2RS	N	NR
45	100	36	47.430	28.350	4,050	-	1.5	1.150	62309	-	2RS	-	-
45	120	29	69.750	40.950	5,040	6,300	2.0	1.520	6409	ZZ	2RS	N	NR
50	65	7	4.590	4.220	7,200	9,000	0.3	0.057	6810	ZZ	2RS	N	NR
50	72	12	11.520	10.080	7,200	9,000	0.6	0.140	6910	ZZ	2RS	N	NR
50	80	10	14.580	11.880	6,300	8,100	0.6	0.180	16010	-	-	-	-
50	80	16	19.800	14.580	6,300	8,100	1.0	0.258	6010	ZZ	2RS	N	NR
50	80	23	19.440	14.400	4,500	-	1.0	0.370	63010	-	2RS	-	-
50	90	20	31.500	20.880	6,030	7,650	1.0	0.463	6210	ZZ	2RS	N	NR
50	90	23	31.590	20.880	4,320	-	1.0	0.520	62210	-	2RS	-	-
50	110	27	55.620	34.200	5,400	6,750	2.0	1.082	6310	ZZ	2RS	N	NR
50	110	40	55.620	34.200	3,870	-	2.0	1.550	62310	-	2RS	-	-
50	130	31	82.980	49.680	4,770	6,030	2.1	1.855	6410	ZZ	2RS	N	NR
55	72	9	6.050	5.850	6,750	8,550	0.3	0.083	6811	ZZ	2RS	N	NR
55	80	13	11.700	12.150	6,300	8,100	1.0	0.190	6911	ZZ	2RS	N	NR
55	90	11	14.580	15.480	5,670	7,200	0.6	0.260	16011	-	-	-	-
55	90	18	27.180	19.620	5,670	7,200	1.0	0.382	6011	ZZ	2RS	N	NR
55	100	21	38.880	26.280	5,400	6,750	1.5	0.603	6211	ZZ	2RS	N	NR
55	100	25	39.240	26.100	3,870	-	1.5	0.700	62211	-	2RS	-	-



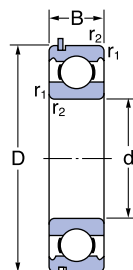
OPEN
With recessed outer
ring shoulder
开式



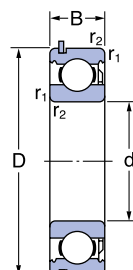
SHIELDS - ZZ
轴承两侧有防尘盖



SEALS - 2RS
轴承两侧有密封圈



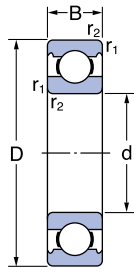
Snap ring groove
and snap ring in outer
ring - NR
轴承外圈有止动槽和
止动环



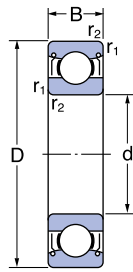
One Z shield,
snap ring groove and
snap ring - ZNR
轴承一侧有防尘盖和
带止动环

Basic Dimensions 基本尺寸			Basic Load Ratings 基本载荷		Limiting Speed 极限转速		Chamfer Dimension 外角尺寸	Mass 重量	Designation 型号				
d mm	D mm	B mm	Dynamic 动载荷 C kN	Static 静载荷 C ₀ kN	Grease 脂 r/min	Oil 油 r/min	r _{1,2} mm	kg	Open 开式	Shields ZZ 防尘盖 型 ZZ	Seals 2RS 密封圈 型 2RS	With Snap Ring Groove N 带止动环 槽 N	With Snap Ring NR 带止动环 NR
55	120	29	64.350	40.320	4,770	6,030	2.0	1.350	6311	ZZ	2RS	N	NR
55	120	43	64.350	40.500	3,420	-	2.0	1.950	62311	-	2RS	-	-
55	140	33	90.000	56.250	4,320	5,400	2.1	2.316	6411	ZZ	2RS	N	NR
60	78	10	8.240	7.880	6,030	7,650	0.3	0.110	6812	ZZ	2RS	N	NR
60	85	13	12.600	12.780	5,670	7,200	1.0	0.200	6912	ZZ	2RS	N	NR
60	95	11	14.850	13.500	5,400	6,750	0.6	0.280	16012	-	-	-	-
60	95	18	28.350	21.780	5,400	6,750	1.0	0.420	6012	ZZ	2RS	N	NR
60	110	22	43.020	29.520	5,040	6,750	1.5	0.789	6212	ZZ	2RS	N	NR
60	110	28	47.430	32.400	3,600	-	1.5	0.970	62212	-	2RS	-	-
60	130	31	73.620	46.620	4,500	5,670	2.1	1.710	6312	ZZ	2RS	N	NR
60	130	46	73.710	46.800	3,060	-	2.0	2.500	62312	-	2RS	-	-
60	150	35	97.200	63.000	4,050	5,040	2.1	2.750	6412	ZZ	2RS	N	NR
65	85	10	9.000	8.390	5,670	7,200	0.6	0.130	6813	ZZ	2RS	N	NR
65	90	13	13.050	15.750	5,400	6,750	1.0	0.220	6913	ZZ	2RS	N	NR
65	100	11	15.750	14.400	5,040	6,300	0.6	0.300	16013	-	-	-	-
65	100	18	28.800	22.320	5,040	6,300	1.0	0.440	6013	ZZ	2RS	N	NR
65	120	23	51.480	36.000	4,500	5,670	1.5	0.990	6213	ZZ	2RS	N	NR
65	120	31	50.310	36.450	3,240	-	1.5	1.250	62213	-	2RS	-	-
65	140	33	84.420	54.450	4,050	5,040	2.1	2.100	6313	ZZ	2RS	N	NR
65	140	48	83.070	54.000	2,880	-	2.0	3.000	62313	-	2RS	-	-
65	160	37	106.200	70.650	3,870	4,770	2.1	3.342	6413	ZZ	2RS	N	NR
70	90	10	9.450	9.720	5,400	6,750	0.6	0.140	6814	ZZ	2RS	N	NR
70	100	16	14.850	15.480	5,040	6,300	1.0	0.350	6914	ZZ	2RS	N	NR
70	110	13	18.180	16.920	4,770	6,030	0.6	0.430	16014	-	-	-	-
70	110	20	34.650	27.450	4,770	6,030	1.0	0.600	6014	ZZ	2RS	N	NR
70	125	24	54.720	40.500	4,320	5,400	1.5	1.050	6214	ZZ	2RS	N	NR
70	125	31	54.450	40.500	3,060	-	1.5	1.300	62214	-	2RS	-	-
70	150	35	94.500	61.200	3,870	4,770	2.1	2.500	6314	ZZ	2RS	N	NR
70	150	51	93.600	61.200	2,700	-	2.0	3.550	62314	-	2RS	-	-
70	180	42	126.000	89.550	3,420	4,320	2.5	4.850	6414	ZZ	2RS	N	NR
75	95	10	9.450	9.900	5,040	6,300	0.6	0.150	6815	ZZ	2RS	N	NR
75	105	16	16.200	15.750	4,770	6,030	1.0	0.380	6915	ZZ	2RS	N	NR

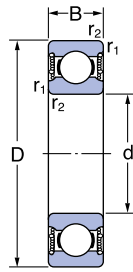
单列公制深沟球轴承 Single Row Deep Groove Ball Bearings - Metric



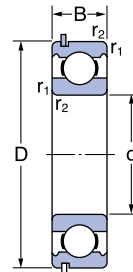
OPEN
With recessed outer
ring shoulder
开式



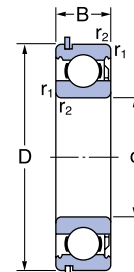
SHIELDS - ZZ
轴承两侧有防尘盖



SEALS - 2RS
轴承两侧有密封圈

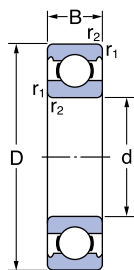


Snap ring groove
and snap ring in outer
ring - NR
轴承外圈有止动槽和
止动环

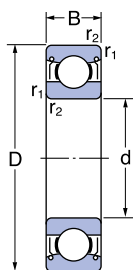


One Z shield,
snap ring groove and
snap ring - ZNR
轴承一侧有防尘盖和
带止动环

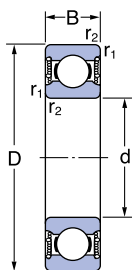
Basic Dimensions 基本尺寸			Basic Load Ratings 基本载荷		Limiting Speed 极限转速		Chamfer Dimension 外角尺寸	Mass 重量	Designation 型号				
d mm	D mm	B mm	Dynamic 动载荷 C kN	Static 静载荷 C ₀ kN	Grease 脂 r/min	Oil 油 r/min	r _{1,2} mm	kg	Open 开式	Shields ZZ 防尘盖 型 ZZ	Seals 2RS 密封圈 型 2RS	With Snap Ring Groove N 带止动环 槽 N	With Snap Ring NR 带止动环 NR
75	115	13	22.500	21.420	4,500	5,670	0.6	0.460	16015	-	-	-	-
75	115	20	36.180	29.880	4,500	5,670	1.0	0.640	6015	ZZ	2RS	N	NR
75	130	25	59.400	44.550	4,050	5,040	1.5	1.200	6215	ZZ	2RS	N	NR
75	160	37	100.800	69.120	3,600	4,500	2.1	3.050	6315	ZZ	2RS	N	NR
75	190	45	139.500	103.500	3,240	4,050	2.5	6.800	6415	ZZ	2RS	N	NR
80	100	10	9.900	10.620	4,770	6,030	0.6	0.160	6816	ZZ	2RS	N	NR
80	110	16	16.920	22.680	4,500	5,670	1.0	0.440	6916	ZZ	2RS	N	NR
80	125	14	22.680	20.412	4,320	5,400	0.6	0.600	16016	-	-	-	-
80	125	22	42.750	35.820	4,320	5,400	1.0	0.821	6016	ZZ	2RS	N	NR
80	140	26	64.350	48.780	3,870	4,770	2.0	1.448	6216	ZZ	2RS	N	NR
80	170	39	109.800	77.850	3,420	4,320	2.1	3.620	6316	ZZ	2RS	N	NR
80	200	48	145.800	112.500	3,060	3,870	2.5	8.000	6416	ZZ	2RS	N	NR
85	100	13	19.620	19.350	4,320	5,400	1.0	0.270	6817	ZZ	2RS	N	NR
85	120	18	25.380	24.120	4,320	5,400	1.0	0.550	6917	ZZ	2RS	N	NR
85	130	14	23.220	23.580	4,050	5,040	0.6	0.630	16017	-	-	-	-
85	130	22	45.720	38.520	4,050	5,040	1.0	0.890	6017	ZZ	2RS	N	NR
85	150	28	74.880	57.150	3,600	4,500	2.0	1.803	6217	ZZ	2RS	N	NR
85	180	41	118.800	86.850	3,240	4,050	2.5	4.284	6317	ZZ	2RS	N	NR
85	210	52	157.500	124.200	2,880	3,600	3.0	9.500	6417	ZZ	2RS	-	-
90	115	13	18.900	17.100	4,050	5,040	1.0	0.280	6818	ZZ	2RS	N	NR
90	125	18	29.520	28.350	4,050	5,040	1.0	0.650	6918	ZZ	2RS	N	NR
90	140	16	30.150	30.150	3,870	4,770	1.0	0.850	16018	-	-	-	-
90	140	24	52.200	44.820	3,870	4,770	1.5	1.190	6018	ZZ	2RS	N	NR
90	160	30	86.220	64.350	3,420	4,320	2.0	2.170	6218	ZZ	2RS	N	NR
90	190	43	130.500	97.200	3,060	3,870	2.5	4.970	6318	ZZ	2RS	N	NR
90	225	54	172.800	142.200	2,520	3,240	3.0	11.500	6418	ZZ	2RS	-	-
95	120	13	14.580	16.020	3,870	4,770	1.0	0.300	6819	ZZ	2RS	N	NR
95	130	18	34.200	29.250	3,870	4,770	1.0	0.610	6919	ZZ	2RS	N	NR
95	145	16	33.300	33.120	3,600	4,500	1.0	0.890	16019	-	-	-	-
95	145	24	52.020	45.000	3,600	4,500	1.5	1.230	6019	ZZ	2RS	N	NR
95	170	32	99.000	74.520	3,240	4,050	2.1	2.620	6219	ZZ	2RS	N	NR
95	200	45	139.500	109.800	2,880	3,600	2.5	5.740	6319	ZZ	2RS	N	NR



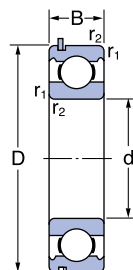
OPEN
With recessed outer
ring shoulder
开式



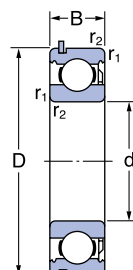
SHIELDS - ZZ
轴承两侧有防尘盖



SEALS - 2RS
轴承两侧有密封圈



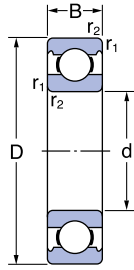
Snap ring groove
and snap ring in outer
ring - NR
轴承外圈有止动槽和
止动环



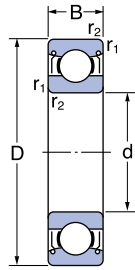
One Z shield,
snap ring groove and
snap ring - ZNR
轴承一侧有防尘盖和
带止动环

Basic Dimensions 基本尺寸			Basic Load Ratings 基本载荷		Limiting Speed 极限转速		Chamfer Dimension 外角尺寸	Mass 重量	Designation 型号				
d mm	D mm	B mm	Dynamic 动载荷 C kN	Static 静载荷 C ₀ kN	Grease 脂 r/min	Oil 油 r/min	r _{1,2} mm	kg	Open 开式	Shields ZZ 防尘盖 型 ZZ	Seals 2RS 密封圈 型 2RS	With Snap Ring Groove N 带止动环 槽 N	With Snap Ring NR 带止动环 NR
100	125	13	15.300	18.720	3,600	4,500	1.0	0.310	6820	ZZ	2RS	N	NR
100	140	20	37.080	31.320	3,600	4,500	1.0	0.830	6920	ZZ	2RS	N	NR
100	150	16	34.380	34.650	3,420	4,320	1.0	0.940	16020	-	-	-	-
100	150	24	58.050	50.580	3,420	4,320	1.5	1.180	6020	ZZ	2RS	N	NR
100	180	34	109.800	83.520	3,060	3,870	2.1	3.190	6220	ZZ	2RS	N	NR
100	215	47	154.800	126.000	2,520	3,240	2.5	7.070	6320	ZZ	2RS	-	-
100	250	58	199.800	175.500	2,160	2,880	3.0	15.900	6420	ZZ	2RS	-	-
105	130	13	15.750	18.180	3,420	4,320	1.0	0.340	6821	ZZ	2RS	N	NR
105	145	20	37.980	36.720	3,420	4,320	1.0	0.856	6921	ZZ	2RS	N	NR
105	160	18	39.150	39.780	3,240	4,050	1.0	1.200	16021	-	-	-	-
105	160	26	64.620	56.880	3,240	4,050	2.0	1.520	6021	ZZ	2RS	N	NR
105	190	36	119.700	94.500	2,880	3,600	2.1	3.780	6221	ZZ	2RS	N	NR
105	225	49	163.800	139.500	2,340	3,060	2.5	8.050	6321	ZZ	2RS	-	-
110	140	16	20.250	22.050	3,240	4,050	1.0	0.510	6822	ZZ	2RS	N	NR
110	150	20	39.150	40.050	3,240	4,050	1.0	0.893	6922	ZZ	2RS	N	NR
110	170	19	47.700	48.600	3,060	3,870	1.0	1.510	16022	-	-	-	-
110	170	28	73.620	65.520	3,060	3,870	2.0	1.890	6022	ZZ	2RS	N	NR
110	200	38	129.600	105.300	2,700	3,420	2.1	4.420	6222	ZZ	2RS	N	NR
110	240	50	184.500	160.200	2,160	2,880	2.5	9.530	6322	ZZ	-	-	-
120	150	16	21.600	25.200	3,060	3,870	1.0	0.600	6824	ZZ	2RS	N	NR
120	165	22	47.700	48.420	2,880	3,600	1.0	1.210	6924	ZZ	2RS	N	NR
120	180	19	48.780	51.300	2,700	3,420	1.0	1.600	16024	-	-	-	-
120	180	28	78.750	71.280	2,700	3,420	2.0	1.990	6024	ZZ	2RS	N	NR
120	215	40	139.500	117.900	2,340	3,060	2.1	5.300	6224	ZZ	2RS	-	-
120	260	55	205.200	187.200	1,980	2,700	2.5	12.200	6324	ZZ	-	-	-
130	165	18	30.540	34.830	2,916	3,483	1.0	0.850	6826	ZZ	2RS	N	NR
130	180	24	58.680	60.480	2,700	3,420	1.5	1.800	6926	ZZ	2RS	N	NR
130	200	22	55.620	60.300	2,520	3,240	1.0	2.350	16026	-	-	-	-
130	200	33	94.500	87.120	2,520	3,240	2.0	3.200	6026	ZZ	2RS	N	NR
130	230	40	148.500	133.200	2,160	2,880	2.5	5.900	6226	ZZ	2RS	-	-
130	280	58	226.800	217.800	1,710	2,340	3.0	15.200	6326	ZZ	-	-	-
140	175	18	31.590	37.670	2,754	3,240	1.0	0.920	6828	ZZ	2RS	N	NR

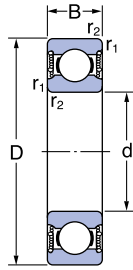
单列公制深沟球轴承 Single Row Deep Groove Ball Bearings - Metric



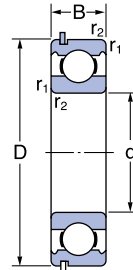
OPEN
With recessed outer
ring shoulder
开式



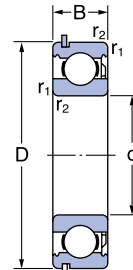
SHIELDS - ZZ
轴承两侧有防尘盖



SEALS - 2RS
轴承两侧有密封圈

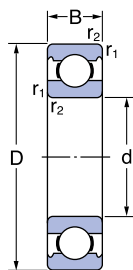


Snap ring groove
and snap ring in outer
ring - NR
轴承外圈有止动槽和
止动环

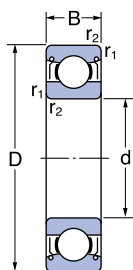


One Z shield,
snap ring groove and
snap ring - ZNR
轴承一侧有防尘盖和
带止动环

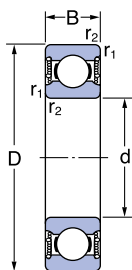
Basic Dimensions 基本尺寸			Basic Load Ratings 基本载荷		Limiting Speed 极限转速		Chamfer Dimension 外角尺寸	Mass 重量	Designation 型号				
d mm	D mm	B mm	Dynamic 动载荷 C kN	Static 静载荷 C ₀ kN	Grease 脂 r/min	Oil 油 r/min	r _{1,2} mm	kg	Open 开式	Shields ZZ 防尘盖 型 ZZ	Seals 2RS 密封圈 型 2RS	With Snap Ring Groove N 带止动环 槽 N	With Snap Ring NR 带止动环 NR
140	190	24	59.850	58.050	2,520	3,240	1.5	1.680	6928	ZZ	2RS	N	NR
140	210	22	56.700	62.820	2,160	2,880	1.0	2.840	16028	-	-	-	-
140	210	33	103.500	97.200	2,160	2,880	2.0	3.420	6028	ZZ	2RS	N	NR
140	250	42	160.200	148.500	1,800	2,520	2.5	7.680	6228	ZZ	2RS	-	-
140	300	62	247.500	244.800	1,620	2,160	3.0	18.330	6328	ZZ	-	-	-
150	190	20	39.530	49.410	2,430	2,916	1.0	1.280	6830	ZZ	2RS	N	NR
150	210	28	71.610	75.330	2,268	2,754	2.0	3.050	6930	ZZ	2RS	-	-
150	225	24	66.780	74.250	1,980	2,700	1.0	3.580	16030	-	-	-	-
150	225	35	118.800	112.500	1,980	2,700	2.1	4.560	6030	ZZ	2RS	-	-
150	270	45	181.800	178.200	1,710	2,340	2.5	9.779	6230	ZZ	-	-	-
150	320	65	259.200	265.500	1,530	1,980	3.0	21.870	6330	ZZ	-	-	-
160	200	20	38.520	53.280	2,160	2,880	1.0	1.250	6832	ZZ	2RS	N	NR
160	220	28	74.770	79.380	2,106	2,592	2.0	2.750	6932	ZZ	2RS	-	-
160	240	25	79.650	89.820	1,800	2,520	1.5	4.200	16032	-	-	-	-
160	240	38	130.500	124.200	1,800	2,520	2.1	5.150	6032	ZZ	2RS	-	-
160	290	48	193.500	196.200	1,620	2,160	2.5	13.500	6232	ZZ	-	-	-
160	340	68	280.800	306.000	1,440	1,800	3.0	26.430	6332	ZZ	-	-	-
170	215	22	45.000	55.080	1,980	2,700	1.0	1.810	6834	ZZ	2RS	-	-
170	230	28	79.650	90.000	1,800	2,520	2.0	3.400	6934	ZZ	-	-	-
170	260	28	90.000	100.800	1,710	2,340	1.5	5.770	16034	-	-	-	-
170	260	42	153.000	153.000	1,710	2,340	2.1	6.500	6034	ZZ	2RS	-	-
170	310	52	220.500	234.000	1,530	1,980	3.0	15.241	6234	ZZ	-	-	-
170	360	72	301.500	340.200	1,350	1,710	3.0	35.200	6334	-	-	-	-
180	225	22	52.200	64.980	1,800	2,520	1.0	2.000	6836	ZZ	2RS	-	-
180	250	33	115.200	124.200	1,710	2,340	2.0	4.800	6936	ZZ	-	-	-
180	280	31	106.200	118.800	1,620	2,160	2.0	7.600	16036	-	-	-	-
180	280	46	169.200	178.200	1,620	2,160	2.1	8.510	6036	ZZ	2RS	-	-
180	320	52	204.300	216.900	1,440	1,800	3.0	15.518	6236	ZZ	-	-	-
180	380	75	284.400	328.500	1,296	1,620	3.0	42.500	6336	-	-	-	-
190	240	24	56.250	70.380	1,710	2,340	1.5	2.550	6838	ZZ	2RS	-	-
190	260	33	101.700	114.300	1,620	2,160	2.0	5.250	6938	ZZ	-	-	-
190	290	31	108.000	126.000	1,530	1,980	2.0	7.890	16038	-	-	-	-



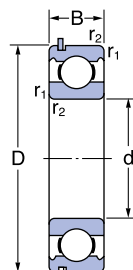
OPEN
With recessed outer
ring shoulder
开式



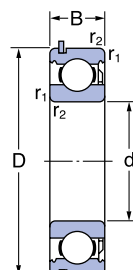
SHIELDS - ZZ
轴承两侧有防尘盖



SEALS - 2RS
轴承两侧有密封圈



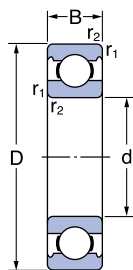
Snap ring groove
and snap ring in outer
ring - NR
轴承外圈有止动槽和
止动环



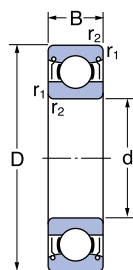
One Z shield,
snap ring groove and
snap ring - ZNR
轴承一侧有防尘盖和
带止动环

Basic Dimensions 基本尺寸			Basic Load Ratings 基本载荷		Limiting Speed 极限转速		Chamfer Dimension 外角尺寸	Mass 重量	Designation 型号				
d mm	D mm	B mm	Dynamic 动载荷 C kN	Static 静载荷 C ₀ kN	Grease 脂 r/min	Oil 油 r/min	r _{1,2} mm	kg	Open 开式	Shields ZZ 防尘盖 型 ZZ	Seals 2RS 密封圈 型 2RS	With Snap Ring Groove N 带止动环 槽 N	With Snap Ring NR 带止动环 NR
190	290	46	169.200	180.000	1,530	1,980	2.1	9.400	6038	ZZ	-	-	-
190	340	55	256.500	289.800	1,350	1,710	3.0	22.300	6238	ZZ	-	-	-
190	400	78	300.600	348.300	1,260	1,539	4.0	49.000	6338	-	-	-	-
200	250	24	57.150	72.900	1,620	2,160	1.5	2.700	6840	ZZ	2RS	-	-
200	280	38	119.700	139.500	1,530	1,980	2.1	7.400	6940	ZZ	-	-	-
200	310	34	127.800	145.800	1,620	1,800	2.0	10.100	16040	-	-	-	-
200	310	51	184.500	202.500	1,440	1,800	2.1	11.640	6040	ZZ	-	-	-
200	360	58	259.200	298.800	1,260	1,620	3.0	26.700	6240	ZZ	-	-	-
200	420	80	342.000	400.500	1,170	1,440	4.0	55.300	6340	-	-	-	-
220	270	24	66.150	79.200	1,530	1,980	1.5	3.000	6844	ZZ	-	-	-
220	300	38	121.500	145.800	1,440	1,800	2.1	7.600	6944	ZZ	-	-	-
220	340	37	154.800	180.000	1,260	1,620	2.1	11.500	16044	-	-	-	-
220	340	56	226.800	241.200	1,260	1,620	2.5	18.000	6044	ZZ	-	-	-
220	400	65	319.500	328.500	1,080	1,440	3.0	36.500	6244	-	-	-	-
220	460	88	369.000	468.000	1,080	1,350	4.0	73.900	6344	-	-	-	-
240	300	28	75.150	97.200	1,350	1,710	2.0	4.500	6848	-	-	-	-
240	320	38	127.800	160.200	1,260	1,620	2.1	8.200	6948	ZZ	-	-	-
240	360	37	154.800	189.000	1,080	1,440	2.1	13.900	16048	-	-	-	-
240	360	56	243.000	262.800	1,080	1,440	2.5	20.000	6048	-	-	-	-
240	440	72	322.200	420.300	900	1,260	3.0	50.500	6248	-	-	-	-
240	500	95	423.000	562.500	990	1,170	4.0	94.400	6348	-	-	-	-
260	320	28	85.500	115.200	1,170	1,530	2.0	4.850	6852	-	-	-	-
260	360	46	189.000	241.200	1,080	1,440	2.1	13.700	6952	-	-	-	-
260	400	44	211.500	279.000	990	1,350	2.5	22.500	16052	-	-	-	-
260	400	65	262.800	334.800	990	1,350	3.0	28.800	6052	-	-	-	-
260	480	80	360.000	486.000	990	1,170	4.0	67.000	6252	-	-	-	-
260	540	102	454.500	639.000	900	1,080	5.0	118.000	6352	-	-	-	-
280	350	33	121.500	160.200	990	1,350	2.0	7.400	6856	-	-	-	-
280	380	46	189.000	241.200	900	1,260	2.1	15.000	6956	-	-	-	-
280	420	65	274.500	367.200	855	1,170	3.0	31.200	6056	-	-	-	-
280	500	80	360.000	495.000	900	1,170	4.0	70.400	6256	-	-	-	-
300	380	38	145.800	199.800	900	1,260	2.1	10.300	6860	-	-	-	-

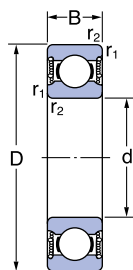
单列公制深沟球轴承 Single Row Deep Groove Ball Bearings - Metric



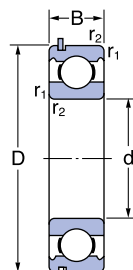
OPEN
With recessed outer
ring shoulder
开式



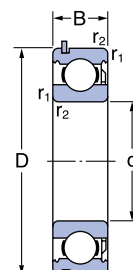
SHIELDS - ZZ
轴承两侧有防尘盖



SEALS - 2RS
轴承两侧有密封圈



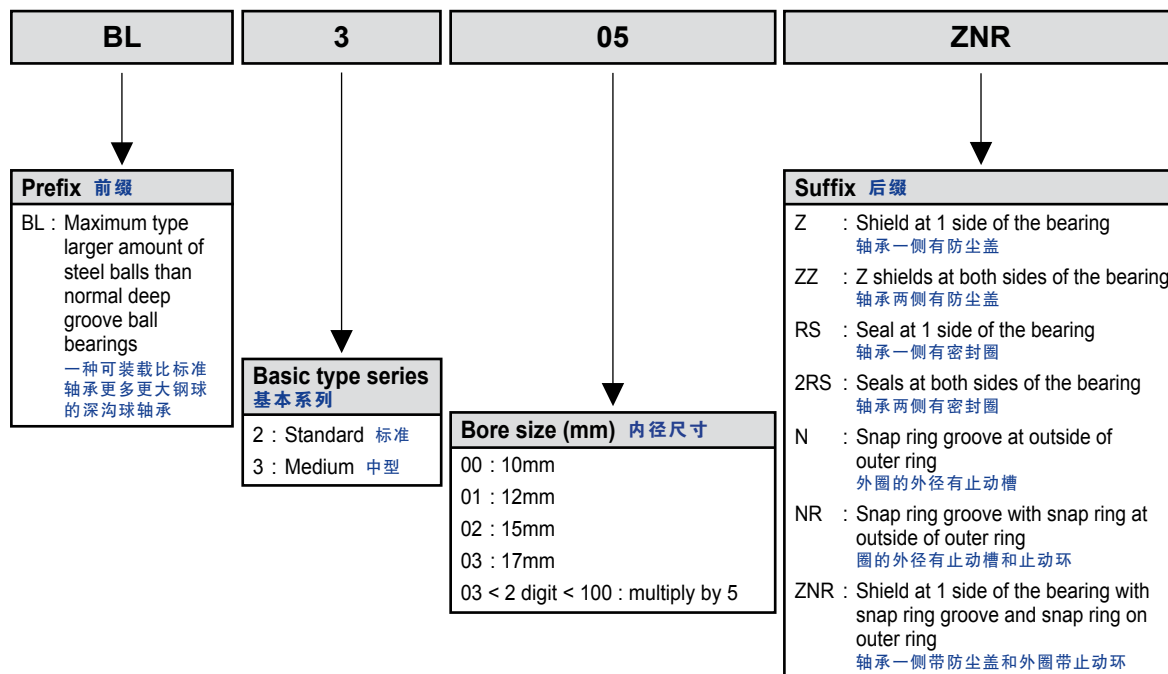
Snap ring groove
and snap ring in outer
ring - NR
轴承外圈有止动槽和
止动环

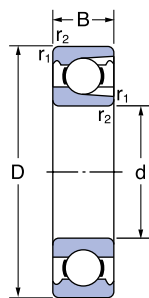


One Z shield,
snap ring groove and
snap ring - ZNR
轴承一侧有防尘盖和
带止动环

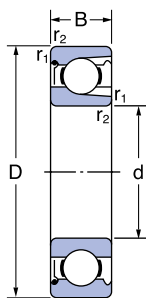
Basic Dimensions 基本尺寸			Basic Load Ratings 基本载荷		Limiting Speed 极限转速		Chamfer Dimension 外角尺寸	Mass 重量	Designation 型号				
d mm	D mm	B mm	Dynamic 动载荷 C kN	Static 静载荷 C ₀ kN	Grease 脂 r/min	Oil 油 r/min	r _{1,2} mm	kg	Open 开式	Shields ZZ 防尘盖 型 ZZ	Seals 2RS 密封圈 型 2RS	With Snap Ring Groove N 带止动环 槽 N	With Snap Ring NR 带止动环 NR
300	420	56	243.000	333.000	855	1,170	2.5	23.900	6960	-	-	-	-
300	460	74	289.980	405.000	972	1,215	3.0	44.000	6060	-	-	-	-
300	540	85	418.500	603.000	855	1,080	4.0	87.800	6260	-	-	-	-
320	400	38	151.200	211.500	855	1,170	2.1	10.800	6864	-	-	-	-
320	440	56	247.500	352.800	810	1,080	2.5	25.300	6964	-	-	-	-
320	480	74	310.500	459.000	765	990	3.0	46.500	6064	-	-	-	-
340	420	38	144.180	222.750	972	1,215	2.0	11.500	6868	-	-	-	-
340	460	56	262.800	376.200	765	990	2.5	26.600	6968	-	-	-	-
340	520	82	342.630	518.400	810	1,053	4.0	62.000	6068	-	-	-	-
360	440	38	147.420	230.850	891	1,134	2.0	12.000	6872	-	-	-	-
360	540	82	360.000	559.800	675	855	4.0	65.300	6072	-	-	-	-
380	480	46	211.500	313.200	720	900	2.1	20.000	6876	-	-	-	-
400	500	46	200.070	328.050	810	1,053	2.0	20.500	6880	-	-	-	-
400	600	90	460.800	781.200	567	720	4.0	88.400	6080	-	-	-	-
420	520	46	203.400	344.250	770	972	2.0	21.500	6884	-	-	-	-
440	540	46	206.550	356.400	729	891	2.0	22.500	6888	-	-	-	-
460	580	56	289.800	484.200	540	675	2.5	35.000	6892	-	-	-	-

■ Prefix & Suffix 前缀与后缀





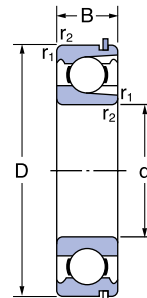
OPEN
With recessed outer
ring shoulder
开式



SHIELD - Z
轴承一侧有防尘盖
轴承一侧有防尘盖

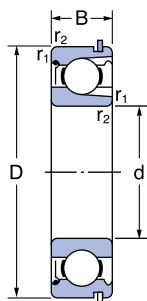


SHIELDS - ZZ
轴承两侧有防尘盖
轴承两侧有防尘盖



Snap ring groove
and snap ring
轴承外圈有止动槽和
止动环

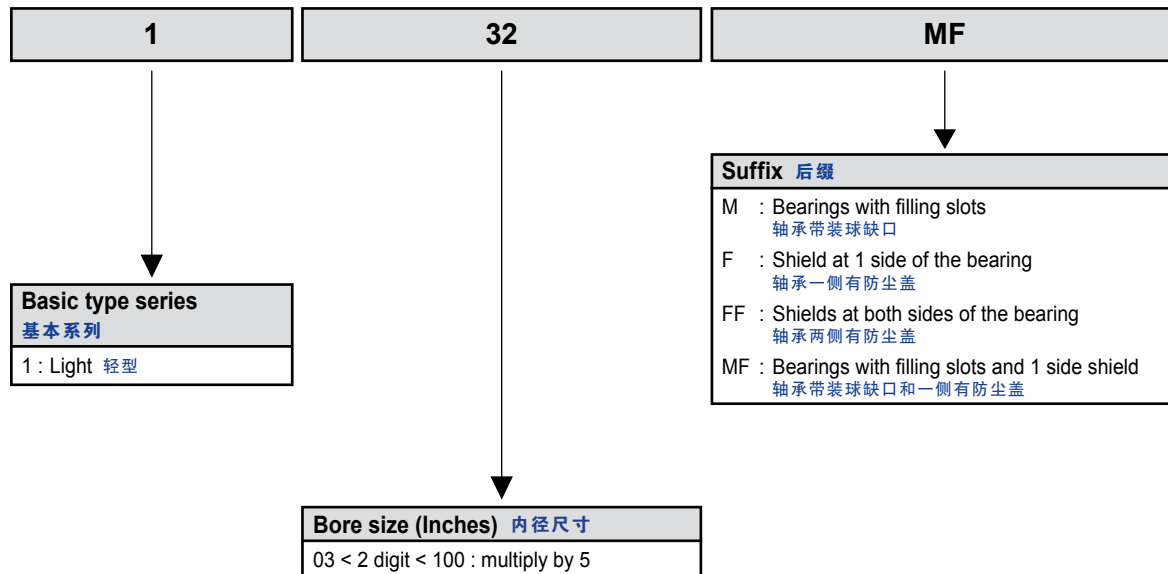
Basic Dimensions 基本尺寸			Basic Load Ratings 基本载荷		Limiting Speed 极限转速		Chamfer Dimension 外角尺寸	Mass 重量
d mm	D mm	B mm	Dynamic 动载荷 C kN	Static 静载荷 C ₀ kN	Grease 脂 r/min	Oil 油 r/min	r _{1,2} min mm	kg
25	62	17	22.990	15.485	7,600	11,400	1.0	0.246
30	62	16	19.855	15.485	7,125	10,450	1.0	0.210
30	72	19	28.215	20.520	6,365	9,025	1.0	0.364
35	72	17	26.125	20.900	6,365	9,025	1.0	0.307
35	80	21	35.055	27.075	5,700	8,075	1.5	0.480
40	80	18	31.920	25.650	5,700	8,075	1.0	0.390
40	90	23	43.415	34.200	5,035	7,125	1.5	0.685
45	85	19	33.440	28.500	5,035	7,125	1.0	0.449
45	100	25	52.250	41.800	4,750	6,650	1.5	0.883
50	90	20	37.145	32.775	4,750	6,650	1.0	0.504
50	110	27	61.180	49.400	4,275	5,985	2.0	1.160
55	100	21	45.980	41.800	4,275	5,985	1.5	0.667
55	120	29	75.240	63.650	3,800	5,320	2.0	1.490
60	110	22	55.385	51.300	4,085	5,700	1.5	0.856
60	130	31	86.735	74.100	3,610	5,035	2.0	1.880
65	120	23	59.565	57.000	3,610	5,035	1.5	1.090
65	140	33	96.900	85.500	3,230	4,560	2.0	2.360
70	125	24	65.835	62.225	3,420	4,750	1.5	1.190
70	150	35	108.300	96.900	3,040	4,275	2.0	2.870
75	130	25	68.495	68.400	3,230	4,560	1.5	1.250
75	160	37	118.750	110.200	2,850	4,085	2.0	3.250
80	140	26	79.990	80.750	3,040	4,275	2.0	1.550
80	170	39	131.100	122.550	2,660	3,800	2.0	3.950
85	150	28	85.215	88.350	2,850	4,085	2.0	1.950
85	180	41	139.650	138.700	2,470	3,610	2.5	4.600
90	160	30	106.400	108.300	2,660	3,800	2.0	2.350
90	190	43	149.150	152.000	2,090	3,230	2.5	5.400
95	170	32	114.950	115.900	2,470	3,610	2.0	2.700
100	180	34	127.300	133.000	2,090	3,230	2.0	3.450



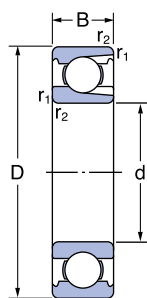
One Z shield, snap ring
groove and snap ring - ZNR
轴承一侧有防尘盖和
带止动环

Designation 型号					
Open 开式	One Shield 防尘盖型 Z	Two Shields ZZ 防尘盖型 ZZ	With Snap Ring 带止动环 NR	One Shield With Snap Ring 单侧防尘盖和 带止动环 ZNR	Snap Ring 止动环 R
BL305	Z	ZZ	NR	ZNR	SP 62
BL206	Z	ZZ	NR	ZNR	SP 62
BL306	Z	ZZ	NR	ZNR	SP 72
BL207	Z	ZZ	NR	ZNR	SP 72
BL307	Z	ZZ	NR	ZNR	SP 80
BL208	Z	ZZ	NR	ZNR	SP 80
BL308	Z	ZZ	NR	ZNR	SP 90
BL209	Z	ZZ	NR	ZNR	SP 85
BL309	Z	ZZ	NR	ZNR	SP 100
BL210	Z	ZZ	NR	ZNR	SP 90
BL310	Z	ZZ	NR	ZNR	SP 110
BL211	Z	ZZ	NR	ZNR	SP 100
BL311	Z	ZZ	NR	ZNR	SP 120
BL212	Z	ZZ	NR	ZNR	SP 110
BL312	Z	ZZ	NR	ZNR	SP 130
BL213	Z	ZZ	NR	ZNR	SP 120
BL313	Z	ZZ	NR	ZNR	SP 140
BL214	Z	ZZ	NR	ZNR	SP 125
BL314	Z	ZZ	NR	ZNR	SP 150
BL215	Z	ZZ	NR	ZNR	SP 130
BL315	Z	ZZ	-	-	-
BL216	Z	ZZ	NR	ZNR	SP 140
BL316	Z	ZZ	-	-	-
BL217	Z	ZZ	NR	ZNR	SP 150
BL317	Z	ZZ	-	-	-
BL218	Z	ZZ	NR	ZNR	SP 160
BL318	Z	ZZ	-	-	-
BL219	Z	ZZ	-	-	-
BL220	Z	ZZ	-	-	-

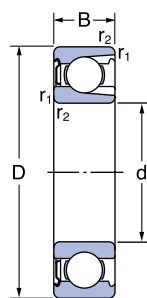
Prefix & Suffix 前缀与后缀



单列重载深沟球轴承 Single Row Deep Groove Ball Bearings, Heavy Duty



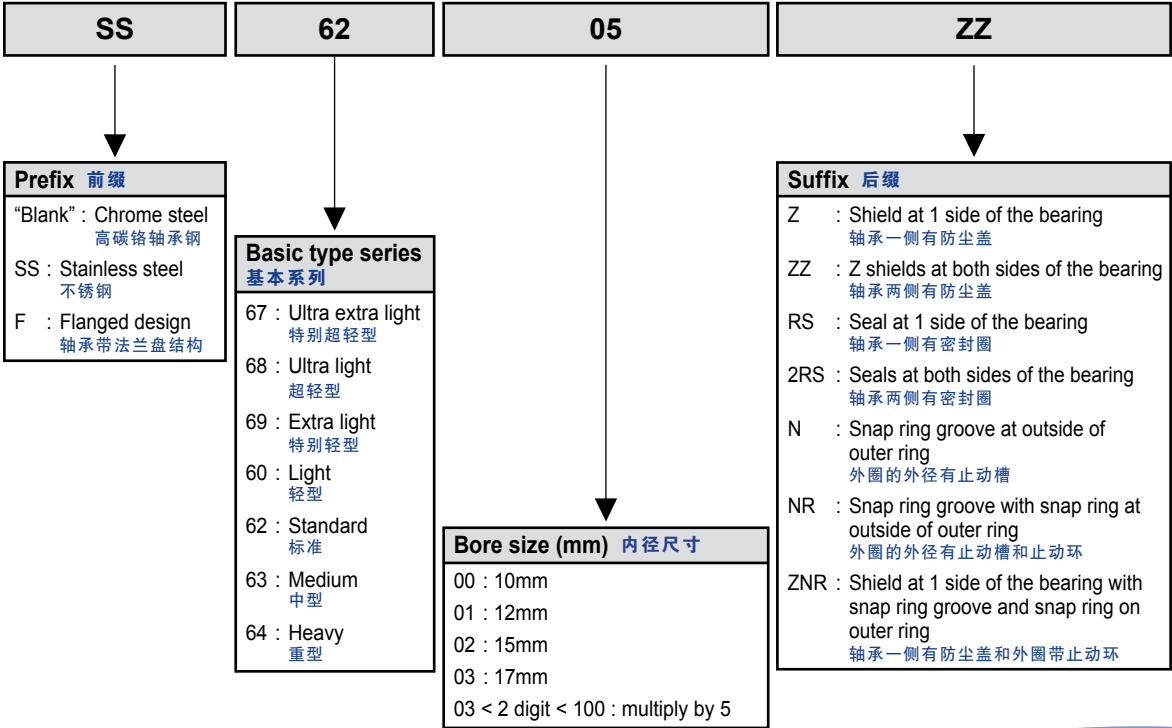
M Open
开式

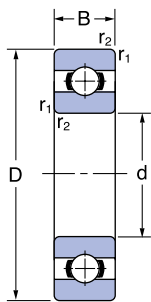


MF One Shield
轴承一侧有防尘盖

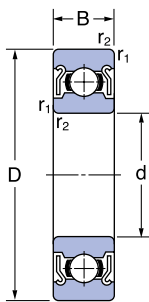
Basic Dimensions 基本尺寸			Basic Load Ratings 基本载荷		Limiting Speed 极限转速		Chamfer Dimension 外角尺寸	Mass 重量	Designation 型号
d mm	D mm	B mm	Dynamic 动载荷 C kN	Static 静载荷 C ₀ kN	Grease 脂 r/min	Oil 油 r/min	r _{1,2} min mm	kg	
50	90	11	17.77	18.62	5,320	6,460	1.0	0.277	110 M
65	115	14	30.31	34.68	4,180	5,130	1.0	0.446	113 M
85	145	18	55.39	64.60	3,230	3,990	1.5	0.938	117 M
100	160	28	91.96	102.60	2,850	3,515	2.0	1.339	120 M
100	160	28	91.96	102.60	2,850	3,515	2.0	1.339	120 MF
120	190	32	116.85	138.70	2,375	2,945	2.0	2.232	124 M
120	190	32	116.85	138.70	2,375	2,945	2.0	2.232	124 MF
130	205	34	131.10	157.70	2,185	2,660	2.0	3.393	126 M
130	205	34	131.10	157.70	2,185	2,660	2.0	3.393	126 MF
140	220	36	149.15	180.50	1,995	2,470	2.0	3.616	128 M
140	220	36	149.15	180.50	1,995	2,470	2.0	3.616	128 MF
160	250	40	180.50	242.25	1,805	2,185	2.0	5.446	132 M
160	250	40	180.50	242.25	1,805	2,185	2.0	5.446	132 MF

Prefix & Suffix 前缀与后缀

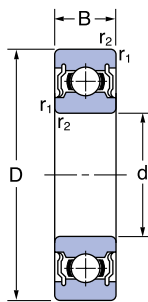




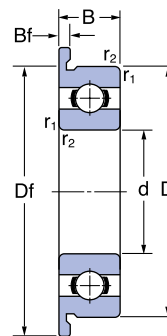
OPEN
开式



SHIELDS - ZZ
轴承两侧有防尘盖



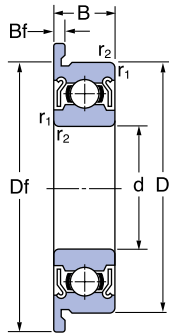
SEALS - 2RS
轴承两侧有密封圈



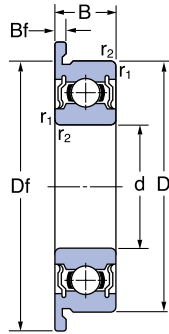
Flange
轴承带法兰盘结构

Basic Dimensions 基本尺寸					Basic Load Ratings 基本载荷		Limiting Speed 极限转速		Chamfer Dimension 外角尺寸	Mass 重量	
d mm	D mm	Df mm	B mm	Bf mm	Dynamic 动载荷 C kN	Static 静载荷 C ₀ kN	Grease 脂 r/min	Oil 油 r/min	r _{1,2} min mm	Shield 防尘盖型 g	Flange Shield 防尘盖型 带法兰盘 g
10	15	16.5	3	0.8	0.855	0.435	15,000	17,000	0.15	1.4	1.6
10	15	16.5	4	0.8	0.855	0.435	15,000	17,000	0.15	1.9	2.1
10	19	21.0	5	1	1.716	0.840	37,000	43,000	0.30	5.6	6.1
10	19	21.0	7	1.5	1.716	0.840	37,000	43,000	0.30	7.4	8.1
10	22	25.0	6	1.5	2.695	1.273	34,000	41,000	0.30	10.0	11.3
10	26	-	8	-	3.860	1.570	31,000	36,000	0.30	19.0	-
10	30	-	9	-	4.340	1.920	24,000	29,000	0.60	32.0	-
10	35	-	11	-	6.870	2.750	22,000	27,000	0.60	53.0	-
12	18	19.5	4	0.8	0.926	0.530	13,000	15,000	0.20	3.1	3.4
12	21	23.0	5	1.1	1.915	1.041	33,000	39,000	0.30	6.5	7.1
12	21	23.0	7	1.5	1.915	1.041	33,000	39,000	0.30	8.5	9.3
12	24	26.5	6	1.5	2.886	1.466	31,000	36,000	0.30	12.0	13.2
12	28	-	8	-	4.340	1.910	27,000	32,000	0.30	22.0	-
12	32	-	10	-	5.770	2.450	22,000	27,000	0.60	37.0	-
12	37	-	12	-	8.240	3.360	20,000	25,000	1.00	60.0	-
15	21	22.5	4	0.8	0.937	0.582	11,000	13,000	0.20	3.6	3.9
15	24	26.0	5	1.1	2.073	1.253	28,000	33,000	0.30	7.6	8.3
15	24	26.0	7	1.5	2.073	1.253	28,000	33,000	0.30	10.0	10.9
15	28	30.5	7	1.5	4.321	2.259	26,000	30,000	0.30	19.0	19.9
15	32	-	9	-	4.750	2.270	23,000	27,000	0.30	30.0	-
15	35	-	11	-	6.490	3.000	20,000	24,000	0.60	45.0	-
15	42	-	13	-	9.710	4.370	17,000	20,000	1.00	82.0	-
17	23	24.5	4	0.8	1.000	0.658	9,500	11,000	0.20	4.0	4.4
17	26	28.0	5	1.1	2.233	1.456	26,000	30,000	0.30	8.2	8.9
17	26	28.0	7	1.5	2.233	1.456	26,000	30,000	0.30	11.0	12.0
17	30	32.5	7	1.5	4.588	2.565	23,000	28,000	0.30	20.0	21.4
17	35	-	10	-	5.090	2.630	21,000	25,000	0.30	39.0	-
17	40	-	12	-	8.130	3.850	17,000	21,000	0.60	65.0	-
17	47	-	14	-	11.550	5.330	15,000	18,000	1.00	115.0	-
20	27	28.5	4	0.8	1.402	0.729	8,500	10,000	0.20	5.9	6.3
20	32	35.0	7	1.5	4.015	2.462	21,000	25,000	0.30	18.0	19.8
20	32	35.0	10	2.0	4.015	2.462	21,000	25,000	0.30	24.0	26.5

Stainless Steel Single Row Deep Groove Ball Bearings

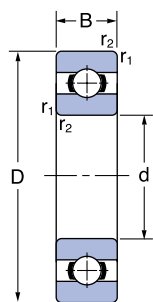


Flange with Shields - ZZ
轴承两侧有防尘盖和
带法兰盘结构

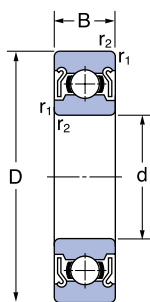


Flange with Seals - 2RS
轴承两侧有密封圈和
带法兰盘结构

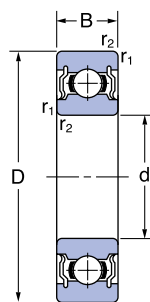
Designation 型号			
Open 开式	Flange Open 开式带法兰盘	Shields 防尘盖型 ZZ	Seals 密封圈型 2RS
6700	F 6700	-	-
-	-	ZZ	2RS
6800	F 6800	ZZ	2RS
63800	F 63800	ZZ	2RS
6900	F 6900	ZZ	2RS
6000	-	ZZ	2RS
6200	-	ZZ	2RS
6300	-	ZZ	2RS
6701	F 6701	ZZ	2RS
6801	F 6801	ZZ	2RS
63801	F 63801	ZZ	2RS
6901	F 6901	ZZ	2RS
6001	-	ZZ	2RS
6201	-	ZZ	2RS
6301	-	ZZ	2RS
6702	F 6702	ZZ	2RS
6802	F 6802	ZZ	2RS
63802	F 63802	ZZ	2RS
6902	F 6902	ZZ	2RS
6002	-	ZZ	2RS
6202	-	ZZ	2RS
6302	-	ZZ	2RS
6703	F 6703	ZZ	2RS
6803	F 6803	ZZ	2RS
63803	F 63803	ZZ	2RS
6903	F 6903	ZZ	2RS
6003	-	ZZ	2RS
6203	-	ZZ	2RS
6303	-	ZZ	2RS
6704	F 6704	ZZ	2RS
6804	F 6804	ZZ	2RS
63804	F 63804	ZZ	2RS



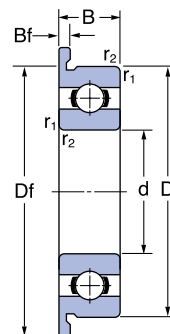
OPEN
开式



SHIELDS - ZZ
轴承两侧有防尘盖



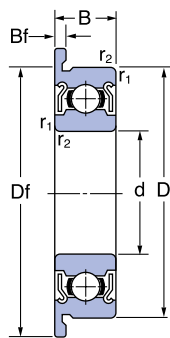
SEALS - 2RS
轴承两侧有密封圈



Flange
轴承带法兰盘结构

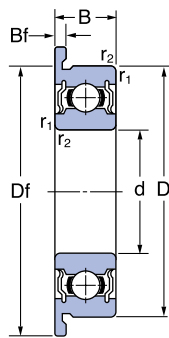
Basic Dimensions 基本尺寸					Basic Load Ratings 基本载荷		Limiting Speed 极限转速		Chamfer Dimension 外角尺寸	Mass 重量	
d mm	D mm	Df mm	B mm	Bf mm	Dynamic 动载荷 C kN	Static 静载荷 C ₀ kN	Grease 脂 r/min	Oil 油 r/min	r _{1,2} min mm	Shield 防尘盖型 g	Flange Shield 防尘盖型 带法兰盘 g
20	37	40.0	9	2.0	6.381	3.682	19,000	23,000	0.30	40.0	42.8
20	42	-	12	-	7.960	4.050	17,000	21,000	0.60	69.0	-
20	47	-	14	-	10.910	5.360	15,000	17,000	1.00	106.0	-
20	52	-	15	-	13.490	6.310	14,000	17,000	1.10	144.0	-
25	32	34.0	4	1.0	1.091	0.838	7,000	8,000	0.20	7.1	7.9
25	37	40.0	7	1.5	4.303	2.932	18,000	21,000	0.30	24.0	26.1
25	37	40.0	10	2.0	4.303	2.932	18,000	21,000	0.30	32.0	34.1
25	42	45.0	9	2.0	7.001	4.540	16,000	19,000	0.30	47.0	50.2
25	47	-	12	-	8.550	4.690	15,000	18,000	0.60	80.0	-
25	52	-	15	-	11.900	7.390	13,000	15,000	1.00	128.0	-
25	62	-	17	-	17.490	9.060	11,000	13,000	1.10	232.0	-
30	37	39.0	4	1.0	1.143	0.947	5,500	7,000	0.20	8.3	9.2
30	42	45.0	7	1.5	4.538	3.402	15,000	18,000	0.30	27.0	29.4
30	42	45.0	10	2.0	4.538	3.402	15,000	18,000	0.30	36.0	39.2
30	47	50.0	9	2.0	7.242	5.003	14,000	17,000	0.30	53.0	56.6
30	55	-	13	-	11.240	6.610	13,000	15,000	1.00	116.0	-
30	62	-	16	-	16.530	9.080	11,000	13,000	1.00	199.0	-
30	72	-	19	-	22.630	12.080	9,600	12,000	1.10	346.0	-
35	44	-	5	-	1.866	1.635	4,900	6,000	0.30	15.0	-
35	47	50.0	7	1.5	4.729	3.821	13,000	16,000	0.30	32.0	34.7
35	55	58.0	10	2.5	10.900	7.818	12,000	14,000	0.60	87.0	92.2
35	62	-	14	-	13.560	8.250	11,000	13,000	1.00	155.0	-
35	72	-	17	-	21.810	12.360	9,200	11,000	1.10	288.0	-
35	80	-	21	-	28.290	15.270	8,500	10,000	1.50	457.0	-
40	50	-	6	-	2.516	2.233	4,300	5,000	0.30	23	-
40	52	55.0	7	1.5	4.923	4.178	12,000	14,000	0.30	35.0	38.0
40	62	65.0	12	2.5	13.678	9.968	11,000	13,000	0.60	131.0	137.0
40	68	-	15	-	14.250	9.220	10,000	12,000	1.00	192.0	-
40	80	-	18	-	24.730	14.330	8,300	10,000	1.10	366.0	-
45	55	-	6	-	2.580	2.397	3,900	4,600	0.30	25.0	-
45	58	61.0	7	1.5	6.187	5.381	11,000	13,000	0.30	42.0	45.3
45	68	71.0	12	2.5	14.100	10.830	9,700	11,000	0.60	147.0	153.0

Stainless Steel Single Row Deep Groove Ball Bearings



Flange with Shields - ZZ

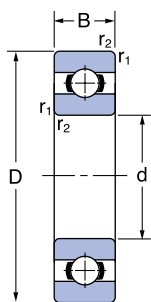
轴承两侧有防尘盖和
带法兰盘结构



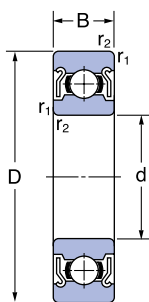
Flange with Seals - 2RS

轴承两侧有密封圈和
带法兰盘结构

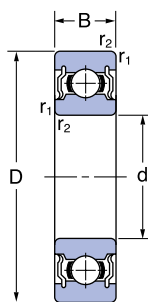
Designation 型号			
Open 开式	Flange Open 开式带法兰盘	Shields 防尘盖型 ZZ	Seals 密封圈型 2RS
6904	F 6904	ZZ	2RS
6004	-	ZZ	2RS
6204	-	ZZ	2RS
6304	-	ZZ	2RS
6705	F 6705	-	2RS
6805	F 6805	ZZ	2RS
63805	F 63805	ZZ	2RS
6905	F 6905	ZZ	2RS
6005	-	ZZ	2RS
6205	-	ZZ	2RS
6305	-	ZZ	2RS
6706	F 6706	-	-
6806	F 6806	ZZ	2RS
63806	F 63806	ZZ	2RS
6906	F 6906	ZZ	2RS
6006	-	ZZ	2RS
6206	-	ZZ	2RS
6306	-	ZZ	2RS
6707	-	-	2RS
6807	F 6807	ZZ	2RS
6907	F 6907	ZZ	2RS
6007	-	ZZ	2RS
6207	-	ZZ	2RS
6307	-	ZZ	2RS
6708	-	-	2RS
6808	F 6808	ZZ	2RS
6908	F 6908	ZZ	2RS
6008	-	ZZ	2RS
6208	-	ZZ	2RS
6709	-	-	2RS
6809	F 6809	ZZ	2RS
6909	F 6909	ZZ	2RS



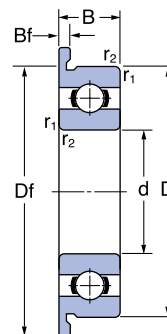
OPEN
开式



SHIELDS - ZZ
轴承两侧有防尘盖



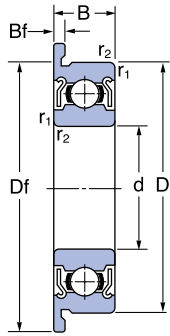
SEALS - 2RS
轴承两侧有密封圈



Flange
轴承带法兰盘结构

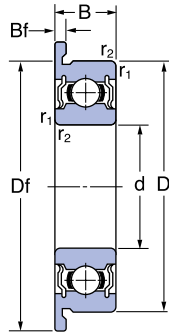
Basic Dimensions 基本尺寸					Basic Load Ratings 基本载荷		Limiting Speed 极限转速		Chamfer Dimension 外角尺寸	Mass 重量	
d mm	D mm	Df mm	B mm	Bf mm	Dynamic 动载荷 C kN	Static 静载荷 C ₀ kN	Grease 脂 r/min	Oil 油 r/min	r _{1,2} min mm	Shield 防尘盖型 g	Flange Shield 防尘盖型 带法兰盘 g
45	75	-	16	-	15.150	9.660	9,200	11,000	1.00	245.0	-
45	85	-	19	-	27.790	16.300	7,700	9,200	1.10	407.0	-
50	62	-	6	-	2.670	2.640	3,500	4,100	0.30	64.0	-
50	65	68.0	7	1.5	6.610	6.090	9,600	11,000	0.30	52.0	-
50	72	75.0	12	2.5	14.540	11.710	9,000	11,000	0.60	133.0	-
50	80	-	16	-	18.510	13.260	8,400	9,900	1.00	261.0	-
50	90	-	20	-	29.800	18.610	7,100	8,500	1.10	463.0	-
55	72	-	9	-	8.800	8.100	8,700	10,000	0.30	83.0	-
55	80	-	13	-	16.600	14.100	8,100	9,600	1.00	190.0	-
60	78	-	10	-	11.500	10.600	8,000	9,400	0.30	110.0	-
60	85	-	13	-	20.200	17.300	7,500	8,900	1.00	200.0	-
65	85	-	10	-	11.900	11.500	7,300	8,600	0.60	130.0	-
65	90	-	13	-	17.400	16.100	7,100	8,400	1.00	220.0	-
70	90	-	10	-	12.100	11.900	6,800	8,100	0.60	140.0	-
70	100	-	16	-	23.700	21.200	6,400	7,600	1.00	350.0	-
75	95	-	10	-	12.500	12.900	12,500	12,900	0.60	145.0	-
75	105	-	16	-	24.400	22.600	6,100	7,200	1.00	370.0	-
80	100	-	10	-	127.000	13.300	12,700	13,300	0.60	150.0	-
80	110	-	16	-	25.000	24.000	5,700	6,800	1.00	400.0	-
85	110	-	13	-	18.700	19.000	5,600	6,600	1.00	270.0	-
85	120	-	18	-	31.900	29.600	5,300	6,300	1.10	550.0	-
90	115	-	13	-	19.000	19.700	5,300	6,300	1.00	280.0	-
90	125	-	18	-	32.800	31.600	5,100	6,000	1.10	590.0	-

Stainless Steel Single Row Deep Groove Ball Bearings



Flange with Shields - ZZ

轴承两侧有防尘盖和
带法兰盘结构

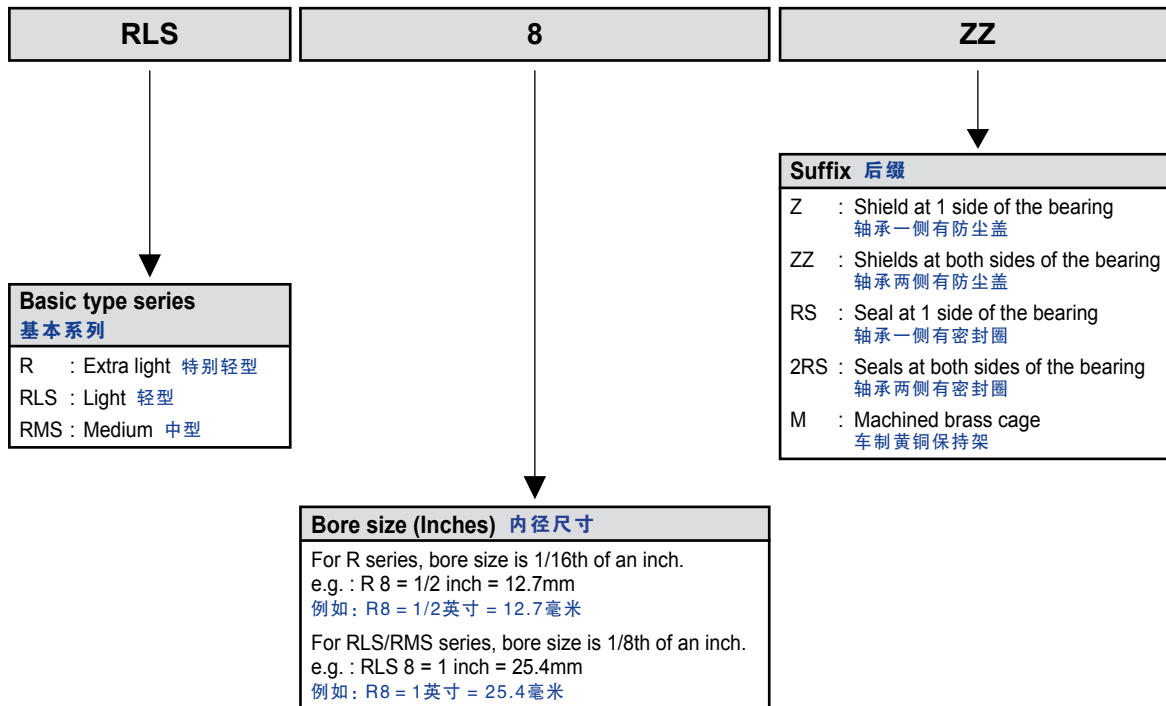


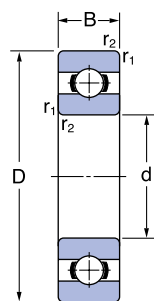
Flange with Seals - 2RS

轴承两侧有密封圈和
带法兰盘结构

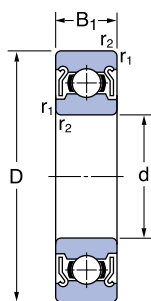
Designation 型号			
Open 开式	Flange Open 开式带法兰盘	Shields 防尘盖型 ZZ	Seals 密封圈型 2RS
6009	-	ZZ	2RS
6209	-	ZZ	2RS
6710	-	-	2RS
6810	F 6810	ZZ	2RS
6910	F 6910	ZZ	2RS
6010	-	ZZ	2RS
6210	-	ZZ	2RS
6811	-	ZZ	2RS
6911	-	ZZ	2RS
6812	-	ZZ	2RS
6912	-	ZZ	2RS
6813	-	ZZ	2RS
6913	-	ZZ	2RS
6814	-	ZZ	2RS
6914	-	ZZ	2RS
6815	-	ZZ	2RS
6915	-	ZZ	2RS
6816	-	ZZ	2RS
6916	-	ZZ	2RS
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6818	-	ZZ	2RS
6918	-	ZZ	2RS

■ Prefix & Suffix 前缀与后缀

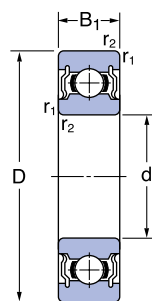




OPEN
开式



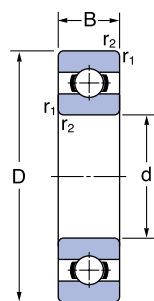
SHIELDS - ZZ
轴承两侧有防尘盖



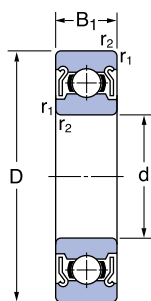
SEALS - 2RS
轴承两侧有密封圈

Basic Dimensions 基本尺寸								Basic Load Ratings 基本载荷		Limiting Speed 极限转速	
d inch	mm	D inch	mm	B inch	mm	B ₁ inch	mm	Dynamic 动载荷 C kN	Static 静载荷 C ₀ kN	Grease 脂 r/min	Oil 油 r/min
0.1250	3.175	0.3750	9.525	0.1562	3.967	0.1562	3.967	0.63	0.22	56,000	67,000
0.1250	3.175	0.5000	12.700	0.1719	4.366	0.1719	4.366	0.64	0.23	53,000	63,000
0.1562	3.967	0.3125	7.938	0.1094	2.779	0.1250	3.175	0.36	0.15	53,000	63,000
0.1875	4.762	0.3125	7.938	0.1094	2.779	0.1250	3.175	0.36	0.15	53,000	63,000
0.1875	4.762	0.3750	9.525	0.1250	3.175	0.1250	3.175	0.71	0.27	50,000	60,000
0.1875	4.762	0.5000	12.700	0.1562	3.967	0.1960	4.978	1.30	0.49	43,000	53,000
0.1875	4.762	0.6250	15.875	0.1960	4.978	0.1960	4.978	1.48	0.62	38,000	45,000
0.2500	6.350	0.3750	9.525	0.1250	3.175	0.1250	3.175	0.37	0.17	48,000	56,000
0.2500	6.350	0.5000	12.700	0.1250	3.175	0.1875	4.762	1.08	0.44	40,000	50,000
0.2500	6.350	0.6250	15.875	0.1960	4.978	0.1960	4.978	1.48	0.62	38,000	45,000
0.2500	6.350	0.7500	19.050	0.2188	5.558	0.2812	7.142	2.34	0.90	36,000	43,000
0.3125	7.938	0.5000	12.700	0.1562	3.967	0.1562	3.967	0.54	0.28	40,000	48,000
0.3750	9.525	0.8750	22.225	0.2188	5.558	0.2512	7.142	3.33	1.41	32,000	38,000
0.5000	12.700	1.1250	28.575	0.2500	6.350	0.3125	7.938	5.11	2.41	27,000	32,000
0.5000	12.700	1.3125	33.337	0.3750	9.925	-	-	4.64	1.99	15,000	19,500
0.5000	12.700	1.6250	41.275	0.6250	15.875	-	-	8.55	4.20	13,500	16,500
0.6250	15.875	1.3750	34.925	0.2812	7.142	0.4380	8.733	6.00	3.27	21,000	25,000
0.6250	15.875	1.5625	39.688	0.4375	11.112	-	-	7.17	3.38	12,750	15,000
0.6250	15.875	1.8125	46.038	0.6250	15.875	-	-	10.35	5.03	12,000	14,250
0.7500	19.050	1.6250	41.275	0.3125	7.938	0.4375	11.113	9.38	5.06	17,000	21,000
0.7500	19.050	1.8750	47.625	0.5625	14.288	-	-	9.53	4.65	11,250	13,500
0.7500	19.050	2.0000	50.800	0.6875	17.462	-	-	11.93	5.85	10,500	12,750
0.8750	22.225	2.0000	50.800	0.5625	14.288	-	-	11.33	5.63	10,500	12,750
0.8750	22.225	2.2500	57.150	0.6875	17.462	-	-	13.95	6.86	9,000	11,250
1.0000	25.400	2.2500	57.150	0.6250	15.875	-	-	1.34	6.60	8,250	10,500
1.0000	25.400	2.5000	63.500	0.7500	19.050	-	-	15.90	7.95	7,500	9,750
1.1250	28.575	2.5000	63.500	0.6250	15.875	-	-	14.63	7.50	7,500	9,750
1.1250	28.575	2.8125	71.438	0.8125	20.638	-	-	20.25	10.28	7,125	9,000
1.2500	31.750	2.7500	69.850	0.6875	17.462	-	-	16.88	8.85	7,125	9,000
1.2500	31.750	3.1250	79.375	0.8750	22.225	-	-	24.90	13.20	6,750	8,250
1.3750	34.925	3.0000	76.200	0.6875	17.462	-	-	19.13	10.28	6,750	8,250
1.3750	34.925	3.5000	88.900	0.8750	22.225	-	-	30.23	16.20	6,000	7,125

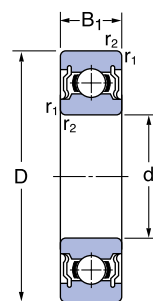
Chamfer Dimension 外角尺寸		Mass 重量		Designation 型号			
$r_{1,2}$ min inch	$r_{1,2}$ min mm	Open 开式 g	Shields 防尘盖型 g	Reference Number 参考型号	Open 开式	Shields 防尘盖型 ZZ	Seals 密封圈型 2RS
0.0118	0.30	1.04	1.37	R 2	R 2	ZZ	2RS
0.0118	0.30	3.30	3.30	R 2A	R 2A	ZZ	-
0.0039	0.10	0.51	0.61	RI 5532	R 155	ZZS	-
0.0039	0.10	0.40	0.45	RI 5632	R 156	ZZS	-
0.0039	0.10	0.81	0.85	RI 6632	R 166	ZZ	-
0.0118	0.30	2.21	2.95	R 3	R 3	ZZ	2RS
0.0118	0.30	4.75	5.08	R 3A	R 3A	ZZ	2RS
0.0039	0.10	0.57	0.60	RI 614	R 168	ZZS	-
0.0059	0.15	1.60	2.32	RI 814	R 188	ZZ	2RS
0.0118	0.30	4.46	4.54	R 4	R 4	ZZ	2RS
0.0157	0.40	7.48	10.00	R 4A	R 4A	AZZ	2RS
0.0059	0.15	1.39	1.57	RI 8516	R 1810	ZZS	-
0.0157	0.40	9.02	11.70	RI 1438	R 6	ZZ	2RS
0.0157	0.40	11.60	24.10	RI 1812	R 8	ZZ	2RS
0.0310	0.80	40.00	-	LJ 1/2	RLS 4	ZZ	2RS
0.0620	1.60	100.00	-	MJ 1/2	RMS 4	ZZ	2RS
0.0315	0.80	23.50	38.10	EE 5	R 10	ZZ	2RS
0.0310	0.80	60.00	-	LJ 5/8	RLS 5	ZZ	2RS
0.0620	1.60	120.00	-	MJ 5/8	RMS 5	ZZ	2RS
0.0315	0.80	53.10	69.30	EE 6	R 12	ZZ	2RS
0.0620	1.60	120.00	-	LJ 3/4	RLS 6	ZZ	2RS
0.0620	1.60	160.00	-	MJ 3/4	RMS 6	ZZ	2RS
0.0620	1.60	120.00	-	LJ 7/8	RLS 7	ZZ	2RS
0.0620	1.60	210.00	-	MJ 7/8	RMS 7	ZZ	2RS
0.0620	1.60	170.00	-	LJ 1	RLS 8	ZZ	2RS
0.0940	2.40	270.00	-	MJ 1	RMS 8	ZZ	2RS
0.0620	1.60	220.00	-	LJ 1.1/8	RLS 9	ZZ	2RS
0.0940	2.40	370.00	-	MJ 1.1/8	RMS 9	ZZ	2RS
0.0620	1.60	290.00	-	LJ 1.1/4	RLS 10	ZZ	2RS
0.0940	2.40	490.00	-	MJ 1.1/4	RM S10	ZZ	2RS
0.0620	1.60	350.00	-	LJ 1.3/8	RLS 11	ZZ	2RS
0.0940	2.40	630.00	-	MJ 1.3/8	RMS 11	ZZ	2RS



OPEN
开式



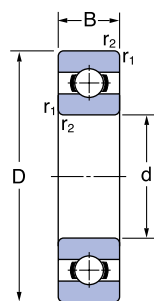
SHIELDS - ZZ
轴承两侧有防尘盖



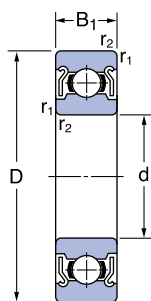
SEALS - 2RS
轴承两侧有密封圈

Basic Dimensions 基本尺寸								Basic Load Ratings 基本载荷		Limiting Speed 极限转速	
d inch	mm	D inch	mm	B inch	mm	B ₁ inch	mm	Dynamic 动载荷 C kN	Static 静载荷 C ₀ kN	Grease 脂 r/min	Oil 油 r/min
1.5000	38.100	3.2500	82.550	0.7500	19.050	-	-	21.83	11.70	6,375	7,500
1.5000	38.100	3.7500	95.250	0.9375	23.812	-	-	33.15	18.38	5,625	6,750
1.6250	41.275	3.5000	88.900	0.7500	19.050	-	-	24.38	13.20	5,625	6,750
1.6250	41.275	4.0000	101.600	0.9375	23.812	-	-	39.53	22.50	5,025	6,000
1.7500	44.450	3.7500	95.250	0.8125	20.638	-	-	26.33	14.70	5,250	6,375
1.7500	44.450	4.2500	107.950	1.0625	26.988	-	-	42.90	24.38	4,725	5,625
1.8750	47.625	4.0000	101.600	0.8125	20.638	-	-	32.70	18.75	4,725	5,625
1.8750	47.625	4.5000	114.300	1.0625	26.988	-	-	49.73	29.25	4,500	5,250
2.0000	50.800	4.0000	101.600	0.8125	20.638	-	-	32.70	18.75	4,725	5,625
2.0000	50.800	4.5000	114.300	1.0625	26.988	-	-	49.73	29.25	4,500	5,250
2.2500	57.150	4.5000	114.300	0.8750	22.225	-	-	39.53	23.25	4,500	5,250
2.2500	57.150	5.0000	127.000	1.2500	31.750	-	-	57.08	33.75	3,975	4,725
2.5000	63.500	5.0000	127.000	0.9375	23.812	-	-	46.80	28.13	3,750	4,500
2.5000	63.500	5.5000	139.700	1.2500	31.750	-	-	69.23	42.00	3,600	4,200
2.7500	69.850	5.2500	133.350	0.9375	23.812	-	-	49.73	31.13	3,600	4,200
2.7500	69.850	6.2500	158.750	1.3750	34.925	-	-	78.00	47.25	3,225	3,750
3.0000	76.200	5.7500	146.050	1.0625	26.988	-	-	54.60	33.00	3,375	3,975
3.0000	76.200	7.0000	177.800	1.5625	39.688	-	-	93.00	60.00	2,850	3,375
3.2500	82.550	6.0000	152.400	1.0625	26.988	-	-	62.40	39.75	3,000	3,600
3.2500	82.550	7.5000	190.500	1.5625	39.688	-	-	99.75	67.50	2,550	3,000
3.5000	88.900	6.5000	165.100	1.1250	28.575	-	-	71.70	45.75	2,850	3,375
3.5000	88.900	8.1250	206.375	1.7500	44.450	-	-	114.75	81.00	2,400	2,850
3.7500	95.250	6.7500	171.450	1.1250	28.575	-	-	75.75	50.25	2,700	3,225
3.7500	95.250	8.2500	209.550	1.7500	44.450	-	-	114.75	81.00	2,400	2,850
4.0000	101.600	7.2500	184.150	1.2500	31.750	-	-	81.00	53.25	2,550	3,000
4.0000	101.600	8.5000	215.900	1.7500	44.450	-	-	122.25	90.00	2,250	2,700
4.2500	107.950	7.5000	190.500	1.2500	31.750	-	-	93.00	61.13	2,400	2,850
4.2500	107.950	8.7500	222.250	1.7500	44.450	-	-	130.50	99.00	2,100	2,550
4.5000	114.300	8.0000	203.200	1.3125	33.338	-	-	97.50	64.88	2,250	2,700
4.5000	114.300	9.3750	238.125	2.0000	50.800	-	-	139.50	107.25	1,950	2,400
4.7500	120.650	8.2500	209.550	1.3125	33.338	-	-	103.50	71.25	2,100	2,550
4.7500	120.650	10.0000	254.000	2.0000	50.800	-	-	146.25	114.75	1,800	2,250

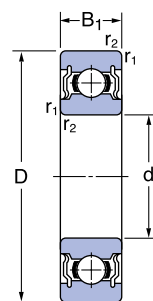
Chamfer Dimension 外角尺寸		Mass 重量		Designation 型号			
$r_{1,2}$ min inch	$r_{1,2}$ min mm	Open 开式 g	Shields 防尘盖型 g	Reference Number 参考型号	Open 开式	Shields 防尘盖型 ZZ	Seals 密封圈型 2RS
0.0940	2.40	440.00	-	LJ 1.1/2	RLS 12	ZZ	2RS
0.0940	2.40	790.00	-	MJ 1.1/2	RMS 12	ZZ	2RS
0.0940	2.40	510.00	-	LJ 1.5/8	RLS 13	ZZ	2RS
0.0940	2.40	910.00	-	MJ 1.5/8	RMS 13	ZZ	2RS
0.0940	2.40	660.00	-	LJ 1.3/4	RLS 14	ZZ	2RS
0.0940	2.40	1,130.00	-	MJ 1.3/4	RMS 14	ZZ	2RS
0.0940	2.40	740.00	-	LJ 1.7/8	RLS 15	ZZ	2RS
0.0940	2.40	1,240.00	-	MJ 1.7/8	RMS 15	ZZ	2RS
0.0940	2.40	700.00	-	LJ 2	RLS 16	ZZ	2RS
0.0940	2.40	1,190.00	-	MJ 2	RMS 16	ZZ	2RS
0.0940	2.40	960.00	-	LJ 2.1/4	RLS 18	-	-
0.1250	3.20	1,700.00	-	MJ 2.1/4	RMS 18	-	-
0.0940	2.40	1,260.00	-	LJ 2.1/2	RLS 20	-	-
0.1250	3.20	2,050.00	-	MJ 2.1/2	RMS 20	-	-
0.0940	2.40	1,370.00	-	LJ 2.3/4	RLS 22	-	-
0.1250	3.20	2,970.00	-	MJ 2.3/4	RMS 22	-	-
0.0940	2.40	1,850.00	-	LJ 3	RLS 24	-	-
0.1560	4.00	4,410.00	-	MJ 3	RMS 24	-	-
0.0940	2.40	1,930.00	-	LJ 3.1/4	RLS 26	-	-
0.1560	4.00	5,000.00	-	MJ 3.1/4	RMS 26	-	-
0.1250	3.20	2,380.00	-	LJ 3.1/2	RLS 28	-	-
0.1560	4.00	6,500.00	-	MJ 3.1/2	RMS 28	-	-
0.1250	3.20	2,510.00	-	LJ 3.3/4	RLS 30	-	-
0.1560	4.00	6,500.00	-	MJ 3.3/4	RMS 30	-	-
0.1250	3.20	3,250.00	-	LJ 4	RLS 32	-	-
0.1560	4.00	8,100.00	-	MJ 4	RMS 32	-	-
0.1250	3.20	3,920.00	-	LJ 4.1/4	RLS 34	-	-
0.1875	4.80	8,500.00	-	MJ 4.1/4	RMS 34	-	-
0.1250	3.20	4,760.00	-	LJ 4.1/2	RLS 36	-	-
0.1875	4.80	11,700.00	-	MJ 4.1/2	RMS 36	-	-
0.1250	3.20	5,000.00	-	LJ 4.3/4	RLS 38	-	-
0.1875	4.80	12,700.00	-	MJ 4.3/4	RMS 38	-	-



OPEN
开式



SHIELDS - ZZ
轴承两侧有防尘盖

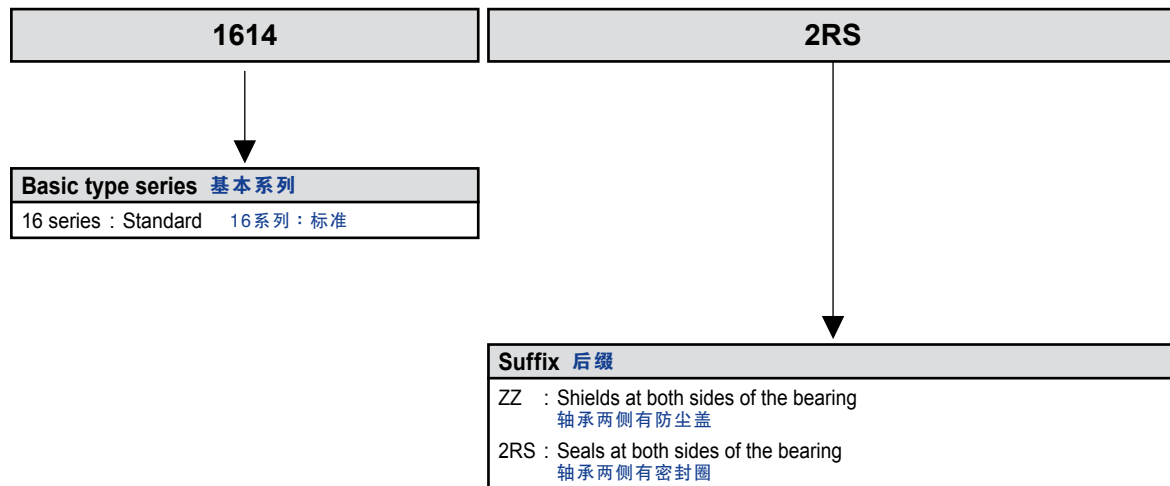


SEALS - 2RS
轴承两侧有密封圈

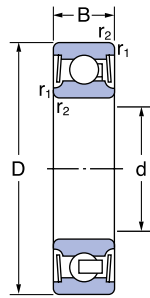
Basic Dimensions 基本尺寸								Basic Load Ratings 基本载荷		Limiting Speed 极限转速	
d inch	mm	D inch	mm	B inch	mm	B ₁ inch	mm	Dynamic 动载荷 C kN	Static 静载荷 C ₀ kN	Grease 脂 r/min	Oil 油 r/min
5.0000	127.000	9.0000	228.600	1.3750	34.925	-	-	111.00	81.00	1,950	2,400
5.0000	127.000	10.0000	254.000	2.0000	50.800	-	-	146.25	114.75	1,800	2,250
5.5000	139.700	9.5000	241.300	1.3750	34.925	-	-	117.00	87.00	1,800	2,250
5.5000	139.700	11.0000	279.400	2.0000	50.800	-	-	159.00	129.75	1,500	1,950
6.0000	152.400	10.5000	266.700	1.5625	39.688	-	-	129.00	100.50	1,500	1,950
6.5000	165.000	11.0000	279.400	1.5625	39.688	-	-	129.00	100.50	1,500	1,950
7.0000	177.800	12.0000	304.800	1.7500	44.450	-	-	149.25	122.25	1,425	1,800
7.5000	190.500	12.5000	317.500	1.7500	44.450	-	-	159.00	135.00	1,350	1,650
8.0000	203.200	13.0000	330.200	1.7500	44.450	-	-	165.75	144.75	1,275	1,500
9.0000	228.600	14.5000	368.300	2.0000	50.800	-	-	175.50	159.00	1,125	1,350
10.0000	254.000	15.7500	400.500	2.0000	50.800	-	-	191.25	187.50	1,050	1,275
11.5000	292.000	18.0000	457.200	2.3750	60.325	-	-	239.25	255.00	825	1,050

Chamfer Dimension 外角尺寸		Mass 重量		Designation 型号			
$r_{1,2}$ min inch	$r_{1,2}$ min mm	Open 开式 g	Shields 防尘盖型 g	Reference Number 参考型号	Open 开式	Shields 防尘盖型 ZZ	Seals 密封圈型 2RS
0.1250	3.20	6,500.00	-	LJ 5	RLS 40	-	-
0.1875	4.80	12,100.00	-	MJ 5	RMS 40	-	-
0.1250	3.20	6,900.00	-	LJ 5.1/2	RLS 44	-	-
0.1875	4.80	-	-	MJ 5.1/2	RMS 44M	-	-
0.1560	4.00	9,800.00	-	LJ 6	RLS 48	-	-
0.1560	4.00	10,400.00	-	LJ 6.1/2	RLS 52	-	-
0.1560	4.00	14,100.00	-	LJ 7	RLS 56M	-	-
0.1560	4.00	15,000.00	-	LJ 7.1/2	RLS 60M	-	-
0.1560	4.00	15,800.00	-	LJ 8	RLS 64M	-	-
0.1875	4.80	-	-	LJ 9	RLS 72M	-	-
0.1875	4.80	-	-	LJ 10	RLS 80M	-	-
0.1875	4.80	-	-	LJ 11.1/2	RLS 92M	-	-

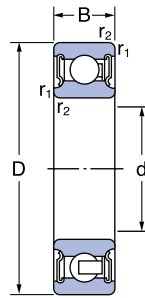
■ Prefix & Suffix 前缀与后缀



Single Row Deep Groove Ball Bearings - Inch Sizes 1600 Series



SHIELDS - ZZ
轴承两侧有防尘盖



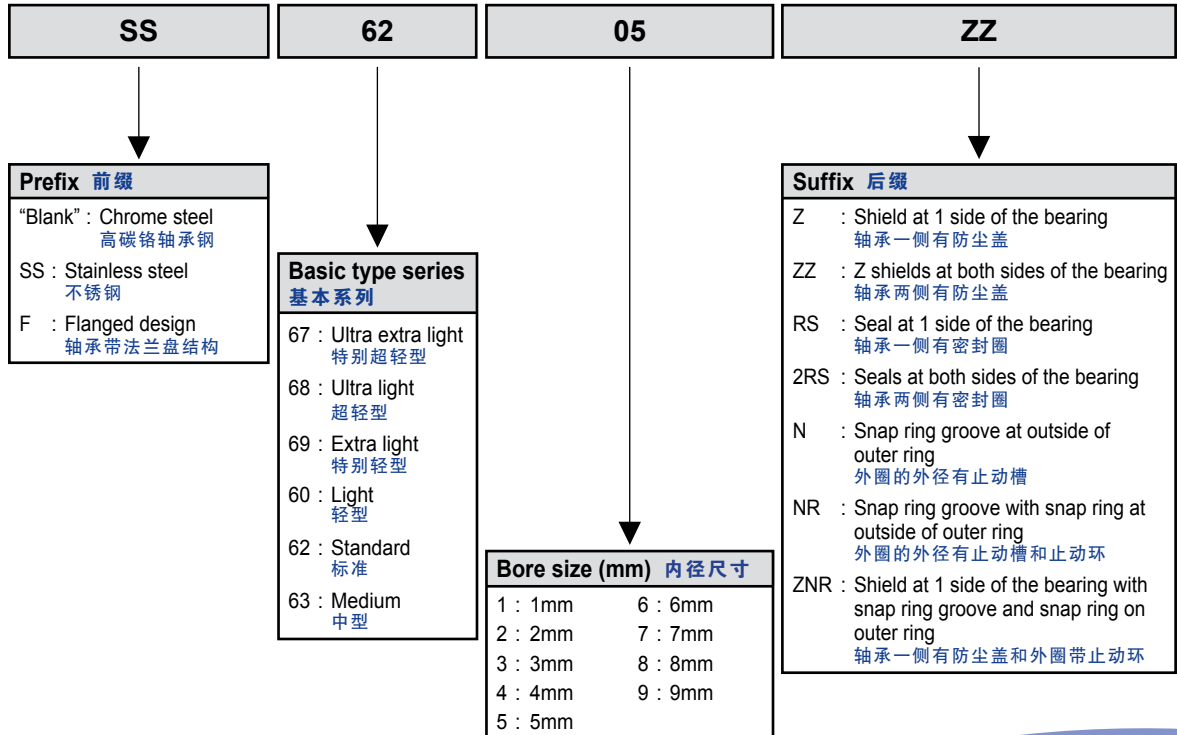
SEALS - 2RS
轴承两侧有密封圈

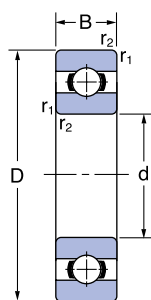
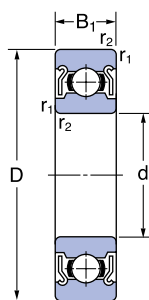
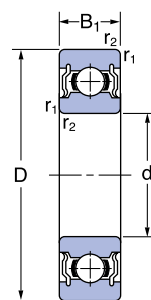
Basic Dimensions 基本尺寸						Chamfer Dimension 外角尺寸		Designation 型号
d inch	mm	D inch	mm	B inch	mm	r _{1,2} min inch	r _{1,2} min mm	
0.188	4.763	0.688	17.463	*0.250	6.350	0.012	0.305	1601
0.250	6.350	0.688	17.463	*0.250	6.350	0.012	0.305	1602
0.313	7.938	0.875	22.225	**0.281	7.144	0.012	0.305	1603
0.375	9.525	0.875	22.225	**0.281	7.144	0.015	0.381	1604
0.313	7.938	0.906	23.019	0.313	7.938	0.012	0.305	1605
0.375	9.525	0.906	23.019	0.313	7.938	0.015	0.381	1606
0.438	11.113	0.906	23.019	0.313	7.938	0.015	0.381	1607
0.375	9.525	1.125	28.575	0.375	9.525	0.025	0.635	1614
0.438	11.113	1.125	28.575	0.375	9.525	0.025	0.635	1615
0.500	12.700	1.125	28.575	0.375	9.525	0.025	0.635	1616
0.438	11.113	1.375	34.925	0.438	11.113	0.025	0.635	1620
0.500	12.700	1.375	34.925	0.438	11.113	0.025	0.635	1621
0.563	14.288	1.375	34.925	0.438	11.113	0.025	0.635	1622
0.625	15.875	1.375	34.925	0.438	11.113	0.025	0.635	1623
0.625	15.875	1.625	41.275	0.500	12.700	0.025	0.635	1628
0.750	19.050	1.625	41.275	0.500	12.700	0.025	0.635	1630
0.625	15.875	1.750	44.450	0.500	12.700	0.025	0.635	1633
0.750	19.050	1.750	44.450	0.500	12.700	0.025	0.635	1635
0.750	19.050	2.000	50.800	0.563	14.288	0.035	0.889	1638
0.875	22.225	2.000	50.800	0.563	14.288	0.035	0.889	1640
1.000	25.400	2.000	50.800	0.563	14.288	0.035	0.889	1641
1.125	28.575	2.500	63.500	0.625	15.875	0.035	0.889	1652
1.250	31.750	2.500	63.500	0.625	15.875	0.035	0.889	1654
1.250	31.750	2.563	65.100	0.688	17.463	0.035	0.889	1657
1.313	33.350	2.563	65.100	0.688	17.463	0.035	0.889	1658

* Width Dimension B for 2RS Types = 0.3125"

** Width Dimension B for 2RS Types = 0.34375"

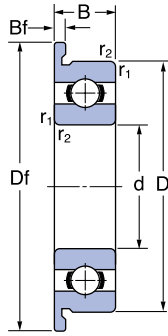
■ Prefix & Suffix 前缀与后缀



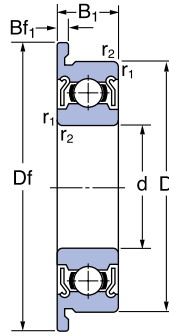

OPEN
开式

SHIELDS - ZZ
轴承两侧有防尘盖

SEALS - 2RS
轴承两侧有密封圈

Basic Dimensions 基本尺寸							Basic Load Ratings 基本载荷		Limiting Speed 极限转速		Chamfer Dimension 外角尺寸
d mm	D mm	Df mm	B mm	Bf mm	B1 mm	Bf1 mm	Dynamic 动载荷 C kN	Static 静载荷 C0 kN	Grease 脂 r/min	Oil 油 r/min	r1,2 min mm
1.0	3	3.8	1	0.3	-	-	96.00	26.00	130.0	150.0	0.05
1.0	3	-	1.5	-	-	-	96.00	26.00	130.0	150.0	0.05
1.0	4	5.0	1.6	0.5	-	-	141.00	37.00	100.0	120.0	0.10
1.2	4	4.8	1.8	0.4	2.5	-	112.00	33.00	110.0	130.0	0.10
1.5	4	5.0	1.2	0.4	2.0	0.6	112.00	33.00	100.0	120.0	0.05
1.5	5	6.5	2	0.6	2.6	0.8	169.00	50.00	85.0	100.0	0.15
1.5	6	7.5	2.5	0.6	3.0	0.8	330.00	99.00	75.0	90.0	0.15
2.0	4	-	1.2	-	2.0	-	124.00	40.00	91.0	104.0	0.05
2.0	5	6.1	1.5	0.5	2.3	0.6	169.00	50.00	85.0	100.0	0.08
2.0	5	6.2	2.0	0.6	2.5	0.6	169.00	50.00	85.0	100.0	0.10
2.0	6	7.5	2.3	0.6	3.0	0.8	330.00	99.00	75.0	90.0	0.15
2.0	6	7.2	2.5	0.6	2.5	-	330.00	99.00	75.0	90.0	0.15
2.0	7	8.2	2.5	0.6	3.0	0.6	386.00	129.00	63.0	75.0	0.15
2.0	7	8.5	2.8	0.7	3.5	0.9	386.00	129.00	60.0	71.0	0.15
2.5	6	7.1	1.8	0.5	2.6	0.8	209.00	74.00	71.0	80.0	0.08
2.5	7	8.5	2.5	0.7	3.5	0.9	386.00	129.00	63.0	75.0	0.15
2.5	8	9.2	2.5	0.6	-	-	558.00	180.00	60.0	67.0	0.20
2.5	8	9.5	2.8	0.7	4.0	0.9	552.00	177.00	60.0	71.0	0.15
3.0	6	7.2	2.0	0.6	2.5	0.6	209.00	74.00	71.0	80.0	0.10
3.0	7	8.1	2.0	0.5	3.0	0.8	311.00	112.00	63.0	75.0	0.10
3.0	8	9.2	2.5	0.6	3.0	-	395.00	141.00	60.0	67.0	0.15
3.0	8	9.5	3.0	0.7	4.0	0.9	558.00	180.00	60.0	67.0	0.15
3.0	9	10.2	2.5	0.6	4.0	0.8	571.00	189.00	56.0	67.0	0.20
3.0	9	10.5	3.0	0.7	5.0	1.0	571.00	189.00	56.0	67.0	0.15
3.0	10	11.5	4.0	1.0	4.0	1.0	631.00	219.00	50.0	60.0	0.15
3.0	13	-	5.0	-	5.0	-	1301.00	488.00	40.0	48.0	0.20
4.0	7	8.2	2.0	0.6	-	-	311.00	115.00	60.0	67.0	0.10
4.0	7	8.2	-	-	2.5	0.6	255.00	108.00	60.0	67.0	0.10
4.0	8	9.2	2.0	0.6	3.0	0.6	395.00	141.00	56.0	67.0	0.15
4.0	8	9.2	2.0	0.6	3.0	0.6	395.00	141.00	56.0	67.0	0.10
4.0	9	10.3	2.5	0.6	4.0	1.0	641.00	227.00	53.0	63.0	0.10
4.0	10	11.2	3.0	0.6	4.0	0.8	711.00	272.00	48.0	56.0	0.20

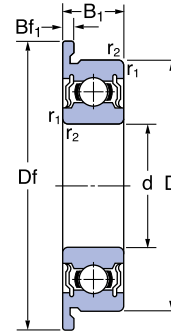
单列公制微型深沟球轴承 Single Row Deep Groove Ball Bearings - Miniature



Flange
轴承带法兰盘结构

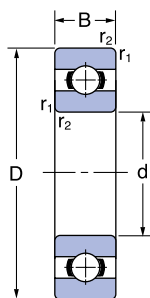


Flange with Shields - ZZ
轴承两侧有防尘盖和
带法兰盘结构

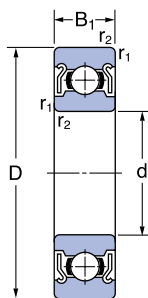


Flange with Seals - 2RS
轴承两侧有密封圈和
带法兰盘结构

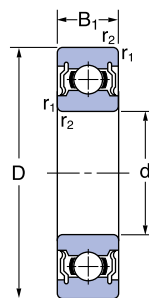
Mass 重量				Designation 型号				
Open 开式 g	Flange Open 开式带法 兰盘 g	Shields 防尘盖型 g	Seals 密封圈型 g	Reference Number 参考型号	Open 开式	Flange Open 开式带法 兰盘	Shields 防尘盖型 ZZ	Seals 密封圈型 2RS
0.03	0.04	-	-	L 310	681	F 681	-	-
0.05	-	-	-	L 310W51	MR 31	-	-	-
0.11	0.14	-	-	R 410	691	F 691	-	-
0.10	0.12	0.14	-	R 412	MR 41X	MF 41X	ZZ	-
0.10	0.12	0.14	0.17	L 415	681X	F 681X	ZZ	-
0.20	0.26	0.25	0.33	R 515	691X	F 691X	ZZ	-
0.31	0.38	0.40	0.50	R 615	601X	F 601X	ZZ	-
0.05	-	0.07	-	672	672	-	ZZ	-
0.15	0.19	0.20	0.24	L 520	682	F 682	ZZ	-
0.14	0.19	0.20	0.25	L 520W02	MR 52	MF 52	ZZ	-
0.28	0.35	0.35	0.45	R 620	692	F 692	ZZ	-
0.28	0.34	0.33	-	R 620W52	MR 62	MF 62	ZZ	-
0.43	0.50	0.53	0.60	R 720Y52	MR 72	MF 72	ZZ	-
0.50	0.60	0.60	0.73	R 720	602	F 602	ZZ	-
0.20	0.24	0.35	0.42	L 625	682X	F 682X	ZZ	-
0.40	0.50	0.55	0.68	R 725	692X	F 692X	ZZ	-
0.52	0.60	-	-	R 825Y52	MR 82X	MF 82X	-	-
0.61	0.72	0.85	0.99	R 825	602X	F 602X	ZZ	-
0.20	0.26	0.28	0.34	L 630	MR 63	MF 63	ZZ	-
0.32	0.37	0.45	0.53	L 730	683	F 683	ZZ	-
0.51	0.59	0.67	-	R 830Y52	MR 83	MF 83	ZZ	-
0.60	0.71	0.80	0.94	R 830	693	F 693	ZZ	2RS
0.75	0.83	1.15	1.30	R 930Y52	MR 93	MF 93	ZZ	-
0.84	0.96	1.13	1.61	R 930	603	F 603	ZZ	-
1.45	1.65	1.65	1.85	R 1030	623	F 623	ZZ	2RS
3.27	-	3.43	-	633	633	-	ZZ	2RS
0.23	0.30	-	-	L 740	MR 74	MF 74	-	-
-	-	0.33	0.40	L 740	-	-	ZZ	-
0.39	0.47	0.56	0.64	L 840	MR 84	MF 84	-	-
0.39	0.47	0.56	0.64	L 840	-	-	ZZ	-
0.65	0.74	1.00	1.15	L 940	684	F 684	ZZ	2RS
0.96	1.04	1.33	1.50	L 1040	MR 104	MF 104	-	2RS



OPEN
开式



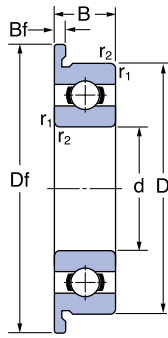
SHIELDS - ZZ
轴承两侧有防尘盖



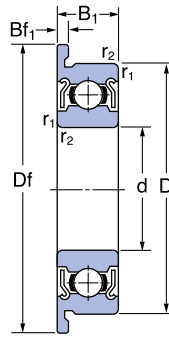
SEALS - 2RS
轴承两侧有密封圈

Basic Dimensions 基本尺寸							Basic Load Ratings 基本载荷		Limiting Speed 极限转速		Chamfer Dimension 外角尺寸
d mm	D mm	Df mm	B mm	Bf mm	B ₁ mm	Bf ₁ mm	Dynamic 动载荷 C kN	Static 静载荷 C ₀ kN	Grease 脂 r/min	Oil 油 r/min	r _{1,2} min mm
4.0	10	11.2	3.0	0.6	4.0	0.8	711.00	272.00	48.0	56.0	0.15
4.0	11	12.5	4.0	1.0	4.0	1.0	957.00	350.00	48.0	56.0	0.15
4.0	12	13.5	4.0	1.0	4.0	1.0	957.00	350.00	48.0	56.0	0.20
4.0	13	15.0	5.0	1.0	5.0	1.0	1301.00	488.00	40.0	48.0	0.20
4.0	16	18.0	5.0	1.0	5.0	1.0	1340.00	523.00	36.0	43.0	0.30
5.0	8	9.2	2.0	0.6	-	-	308.00	120.00	53.0	63.0	0.10
5.0	8	9.2	-	-	2.5	0.6	218.00	90.00	53.0	63.0	0.10
5.0	9	10.2	2.5	0.6	3.0	0.6	431.00	169.00	50.0	60.0	0.15
5.0	10	11.2	3.0	0.6	4.0	0.8	431.00	169.00	50.0	60.0	0.15
5.0	11	12.6	-	-	4.0	0.8	716.00	282.00	45.0	53.0	0.15
5.0	11	12.5	3.0	0.8	5.0	1.0	716.00	282.00	45.0	53.0	0.15
5.0	13	15.0	4.0	1.0	4.0	1.0	1077.00	432.00	43.0	50.0	0.20
5.0	14	16.0	5.0	1.0	5.0	1.0	1329.00	507.00	40.0	50.0	0.20
5.0	16	18.0	5.0	1.0	5.0	1.0	1729.00	675.00	36.0	43.0	0.30
5.0	19	22.0	6.0	1.5	6.0	1.5	2336.00	896.00	32.0	40.0	0.30
6.0	10	11.2	2.5	0.6	3.0	6.0	496.00	218.00	45.0	53.0	0.15
6.0	10	11.2	2.5	0.6	3.0	6.0	496.00	218.00	45.0	53.0	0.10
6.0	12	13.2	3.0	0.6	4.0	0.8	716.00	295.00	43.0	50.0	0.20
6.0	12	13.2	3.0	0.6	4.0	0.8	716.00	295.00	43.0	50.0	0.15
6.0	13	15.0	3.5	1.0	5.0	1.1	1082.00	442.00	40.0	50.0	0.15
6.0	15	17.0	5.0	1.2	5.0	1.2	1340.00	523.00	40.0	45.0	0.20
6.0	16	-	5.0	-	5.0	-	1340.00	523.00	40.0	45.0	0.20
6.0	17	19.0	6.0	1.2	6.0	1.2	2263.00	846.00	38.0	45.0	0.30
6.0	19	22.0	6.0	1.5	6.0	1.5	2336.00	896.00	32.0	40.0	0.30
6.0	22	-	7.0	-	7.0	-	3333.00	1423.00	30.0	36.0	0.30
7.0	11	12.2	2.5	0.6	3.0	0.6	455.00	202.00	43.0	50.0	0.15
7.0	11	12.2	2.5	0.6	3.0	0.6	455.00	202.00	43.0	50.0	0.10
7.0	13	14.2	3.0	0.6	4.0	0.8	541.00	276.00	40.0	48.0	0.20
7.0	13	14.2	3.0	0.6	4.0	0.8	541.00	276.00	40.0	48.0	0.15
7.0	14	16.0	3.5	1.0	5.0	1.1	1173.00	513.00	40.0	50.0	0.15
7.0	17	19.0	5.0	1.2	5.0	1.2	1605.00	719.00	36.0	43.0	0.30
7.0	19	22.0	6.0	1.5	6.0	1.5	2336.00	896.00	36.0	43.0	0.30

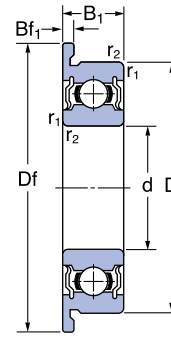
单列公制微型深沟球轴承 Single Row Deep Groove Ball Bearings - Miniature



Flange
轴承带法兰盘结构

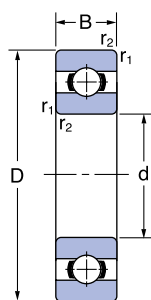


Flange with Shields - ZZ
轴承两侧有防尘盖和
带法兰盘结构

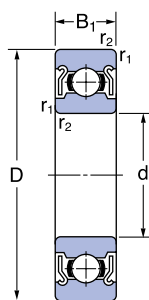


Flange with Seals - 2RS
轴承两侧有密封圈和
带法兰盘结构

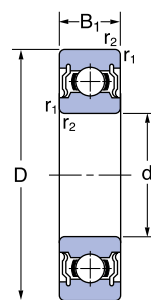
Mass 重量				Designation 型号				
Open 开式 g	Flange Open 开式带法 兰盘 g	Shields 防尘盖型 g	Seals 密封圈型 g	Reference Number 参考型号	Open 开式	Flange Open 开式带法 兰盘	Shields 防尘盖型 ZZ	Seals 密封圈型 2RS
0.96	1.04	1.33	1.50	L 1040	-	-	ZZ	2RS
1.69	1.91	1.75	1.97	R 1140	694	F 694	ZZ	2RS
2.19	2.42	2.34	2.57	R 1240	604	F 604	ZZ	2RS
3.10	3.44	3.20	3.54	R 1340	624	F 624	ZZ	2RS
5.24	5.66	5.44	5.86	R 1640	634	F 634	ZZ	2RS
0.25	0.33	-	-	L 850	MR 85	MF 85	-	-
-	-	0.34	0.42	L 850	-	-	ZZ	-
0.54	0.62	0.58	0.66	L 950	MR 95	MF 95	ZZ	-
0.91	1.00	1.26	1.38	L 1050	MR 105	MF 105	ZZ	2RS
-	-	0.62	0.81	L 1150Y04	-	-	ZZ	2RS
1.16	1.33	1.93	2.15	L 1150	685	F 685	ZZ	2RS
2.39	2.73	2.31	2.65	R 1350	695	F 695	ZZ	2RS
3.46	3.83	3.75	4.12	R 1450	605	F 605	ZZ	2RS
4.95	5.37	5.10	5.52	R 1650	625	F 625	ZZ	2RS
8.50	9.26	8.89	9.65	R 1950	635	F 635	ZZ	2RS
0.55	0.64	0.70	0.79	L 1060	MR 106	MF 106	-	-
0.55	0.64	0.70	0.79	L 1060	-	-	ZZ	-
1.25	1.44	1.66	1.86	L 1260	MR 126	MF 126	-	2RS
1.25	1.44	1.66	1.86	L 1260	-	-	ZZ	2RS
1.87	2.21	2.68	3.06	L 1360	686	F 686	ZZ	2RS
3.85	4.24	3.65	4.04	R 1560	696	F 696	ZZ	2RS
-	-	4.59	-	696A	-	-	ZZ	2RS
5.94	6.47	6.89	7.42	R 1760	606	F 606	ZZ	2RS
8.12	9.25	8.65	9.78	R 1960	626	F 626	ZZ	2RS
13.90	-	14.50	-	636	636	-	ZZ	2RS
0.59	0.69	0.71	0.81	L 1170	MR 117	MF 117	-	-
0.59	0.69	0.71	0.81	L 1170	-	-	ZZ	-
1.52	1.64	2.01	2.17	L 1370	MR 137	MF 137	-	-
1.52	1.64	2.01	2.17	L 1370	-	-	ZZ	-
2.03	2.40	2.95	3.35	L 1470	687	F 687	ZZ	2RS
5.26	5.79	5.01	5.54	697	697	F 697	ZZ	2RS
7.80	8.93	8.24	9.37	R 1970	607	F 607	ZZ	2RS



OPEN
开式

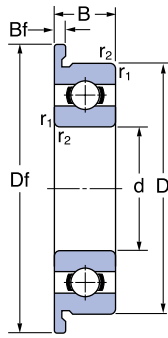


SHIELDS - ZZ
轴承两侧有防尘盖

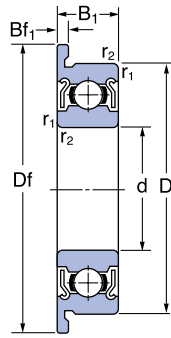


SEALS - 2RS
轴承两侧有密封圈

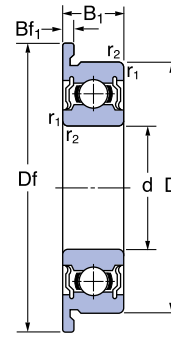
Basic Dimensions 基本尺寸							Basic Load Ratings 基本载荷		Limiting Speed 极限转速		Chamfer Dimension 外角尺寸
d mm	D mm	Df mm	B mm	Bf mm	B1 mm	Bf1 mm	Dynamic 动载荷 C kN	Static 静载荷 C0 kN	Grease 脂 r/min	Oil 油 r/min	r1,2 min mm
7.0	22	25.0	7.0	1.5	7.0	1.5	3287.00	1379.00	30.0	36.0	0.30
7.0	26	-	9.0	-	9.0	-	4563.00	1983.00	28.0	34.0	0.30
8.0	12	13.2	2.5	0.6	3.5	0.8	543.00	274.00	40.0	48.0	0.15
8.0	12	13.2	2.5	0.6	3.5	0.8	543.00	274.00	40.0	48.0	0.10
8.0	14	15.6	3.5	0.8	4.0	0.8	817.00	386.00	38.0	45.0	0.20
8.0	14	15.6	3.5	0.8	4.0	0.8	817.00	386.00	38.0	45.0	0.15
8.0	16	18.0	4.0	1.0	5.0	1.1	1252.00	592.00	36.0	43.0	0.20
8.0	19	22.0	6.0	1.5	6.0	1.5	2237.00	917.00	36.0	43.0	0.30
8.0	22	25.0	7.0	1.5	7.0	1.5	3293.00	1379.00	34.0	40.0	0.30
8.0	24	-	8	-	8.0	-	3333.00	1432.00	28.0	34.0	0.30
8.0	28	-	9	-	9.0	-	4563.00	1983.00	28.0	34.0	0.30
9.0	14	15.5	3	0.8	4.5	0.8	919.00	468.00	36.0	42.0	0.10
9.0	17	19.0	4	1.0	5.0	1.1	1327.00	668.00	36.0	43.0	0.20
9.0	20	23.0	6	1.5	6.0	1.5	2467.00	1081.00	34.0	40.0	0.30
9.0	24	27.0	7	1.5	7.0	1.5	3356.00	1444.00	32.0	38.0	0.30
9.0	26	-	8	-	8.0	-	4563.00	1983.00	28.0	34.0	0.60
9.0	30	-	10	-	10.0	-	4659.00	2080.00	24.0	30.0	0.60



Flange
轴承带法兰盘结构



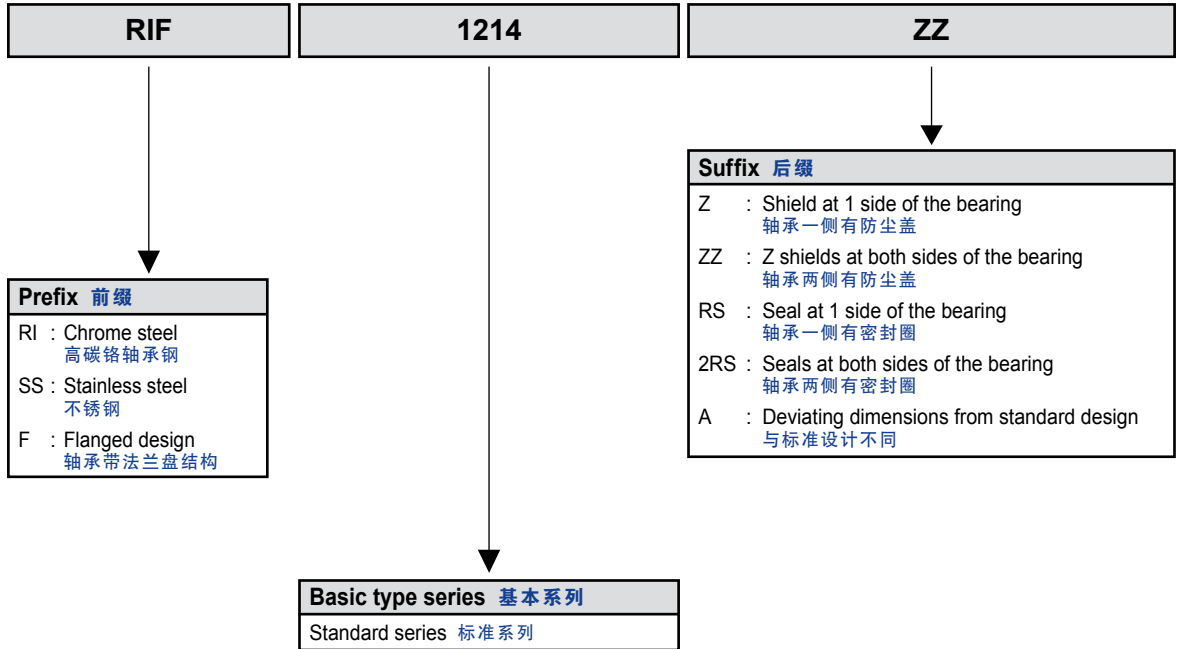
Flange with Shields - ZZ
轴承两侧有防尘盖和
带法兰盘结构

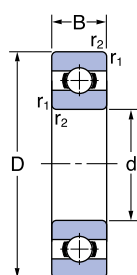


Flange with Seals - 2RS
轴承两侧有密封圈和
带法兰盘结构

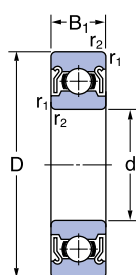
Mass 重量				Designation 型号				
Open 开式 g	Flange Open 开式带法 兰盘 g	Shields 防尘盖型 g	Seals 密封圈型 g	Reference Number 参考型号	Open 开式	Flange Open 开式带法 兰盘	Shields 防尘盖型 ZZ	Seals 密封圈型 2RS
12.70	14.00	13.10	14.40	R 2270	627	F 627	ZZ	2RS
24.20	-	25.80	-	637	637	-	ZZ	2RS
0.70	0.81	0.99	1.14	L 1280	MR 128	MF 128	-	-
0.70	0.81	0.99	1.14	L 1280	-	-	ZZ	-
1.90	2.13	2.19	2.42	L 1480	MR 148	MF 148	-	2RS
1.90	2.13	2.19	2.42	L 1480	-	-	ZZ	2RS
3.11	3.53	4.05	4.51	L 1680	688	F 688	ZZ	2RS
7.12	8.50	7.57	8.70	R 1980	698	F 698	ZZ	2RS
11.80	13.10	12.90	14.20	R 2280	608	F 608	ZZ	2RS
17.10	-	18.50	-	628	628	-	ZZ	2RS
28.10	-	30.30	-	638	638	-	ZZ	2RS
1.35	1.57	1.98	2.20	679	679	F 679	ZZ	-
3.41	3.85	4.38	4.87	L 1790	689	F 689	ZZ	2RS
8.38	9.57	8.54	9.73	L 2090	699	F 699	ZZ	2RS
14.70	16.10	16.00	17.40	609	609	F 609	ZZ	2RS
19.00	-	21.80	-	R 2690	629	-	ZZ	2RS
36.20	-	37.10	-	639	639	-	ZZ	2RS

■ Prefix & Suffix 前缀与后缀

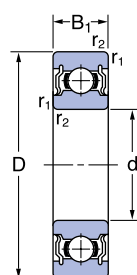




OPEN
开式



SHIELDS - ZZ
轴承两侧有防尘盖

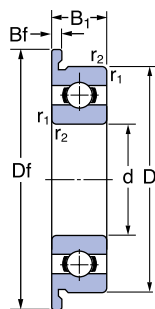


SEALS - 2RS
轴承两侧有密封圈

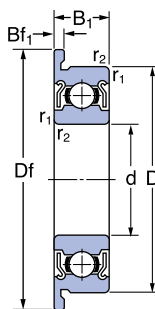
Basic Dimensions 基本尺寸														Basic Load Ratings 基本载荷	
d		D		Df		B		Bf		B ₁		Bf ₁		Dynamic 动载荷 C	Static 静载荷 C ₀
inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	kN	kN
0.0400	1.016	0.1250	3.175	0.1710	4.343	0.0469	1.191	0.0130	0.330	-	-	-	-	106.00	28.00
0.0469	1.191	0.1562	3.967	0.2030	5.156	0.0625	1.588	0.0130	0.330	0.0937	2.380	0.0310	0.787	112.00	33.00
0.0550	1.397	0.1875	4.762	0.2340	5.944	0.0781	1.984	0.0230	0.584	0.1094	2.779	0.0310	0.787	232.00	67.00
0.0781	1.984	0.2500	6.350	0.2960	7.518	0.0937	2.380	0.0230	0.584	0.1406	3.571	0.0310	0.787	284.00	96.00
0.0937	2.380	0.1875	4.762	0.2340	5.944	0.0625	1.588	0.0180	0.457	-	-	-	-	189.00	60.00
0.0937	2.380	0.1875	4.762	0.2340	5.944	-	-	-	-	0.0937	2.380	0.0310	0.787	144.00	53.00
0.0937	2.380	0.3125	7.938	0.3590	9.119	0.1094	2.779	0.0230	0.584	0.1406	3.571	0.0310	0.787	552.00	176.00
0.1250	3.175	0.2500	6.350	0.2960	7.518	0.0937	2.380	0.0230	0.584	0.1094	2.779	0.0310	0.787	311.00	110.00
0.1250	3.175	0.2500	6.350	0.2960	7.518	0.0937	2.380	0.0230	0.584	0.1094	2.779	0.0310	0.787	284.00	96.00
0.1250	3.175	0.3125	7.938	0.3590	9.119	0.1094	2.779	0.0230	0.584	0.1406	3.571	0.0310	0.787	558.00	180.00
0.1250	3.175	0.3750	9.525	0.4220	10.719	0.1094	2.779	0.0230	0.584	0.1406	3.571	0.0310	0.787	640.00	227.00
0.1250	3.175	0.3750	9.525	0.4400	11.176	0.1562	3.967	0.0300	0.762	0.1562	3.967	0.0300	0.762	631.00	219.00
0.1250	3.175	0.5000	12.700	-	-	0.1719	4.366	-	-	0.1719	4.366	-	-	640.00	227.00
0.1562	3.967	0.3125	7.938	0.3590	9.119	0.1094	2.779	0.0230	0.584	0.1250	3.175	0.0360	0.914	359.00	150.00
0.1875	4.762	0.3125	7.938	0.3590	9.119	0.1094	2.779	0.0230	0.584	0.1250	3.175	0.0360	0.914	359.00	150.00
0.1875	4.762	0.3750	9.525	0.4220	10.719	0.1250	3.175	0.0230	0.584	0.1250	3.175	0.0310	0.787	709.00	272.00
0.1875	4.762	0.5000	12.700	0.5650	14.351	0.1960	4.978	0.0420	1.067	-	-	-	-	1301.00	488.00
0.1875	4.762	0.5000	12.700	0.5650	14.351	0.1562	3.967	-	-	0.1960	4.978	0.0420	1.067	1301.00	488.00
0.1875	4.762	0.6250	15.875	-	-	0.1960	4.978	-	-	0.1960	4.978	-	-	1480.00	621.00
0.2500	6.350	0.3750	9.525	0.4220	10.719	0.1250	3.175	0.0230	0.584	0.1250	3.175	0.0360	0.914	373.00	172.00
0.2500	6.350	0.5000	12.700	0.5470	13.894	0.1250	3.175	0.0230	0.584	0.1875	4.762	0.0450	1.143	1082.00	442.00
0.2500	6.350	0.6250	15.875	0.6900	17.526	0.1960	4.978	0.0420	1.067	0.1960	4.978	0.0633	1.607	1480.00	621.00
0.2500	6.350	0.7500	19.050	-	-	0.2188	5.558	-	-	0.2812	7.142	-	-	2336.00	896.00
0.3125	7.938	0.5000	12.700	0.5470	13.894	0.1562	3.967	0.0310	0.787	0.1562	3.967	0.0310	0.787	542.00	276.00
0.3750	9.525	0.8750	22.225	0.9690	24.613	0.2188	5.558	0.0620	1.575	0.2512	7.142	0.0620	1.575	3332.00	1411.00

Single Row Deep Groove Ball Bearings, Miniature - Inch Sizes

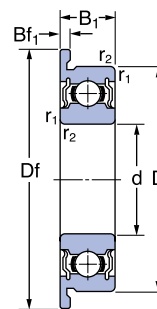
单列英制微型深沟球轴承



Flange
轴承带法兰盘结构



Flange with Shields - ZZ
轴承两侧有防尘盖和
带法兰盘结构

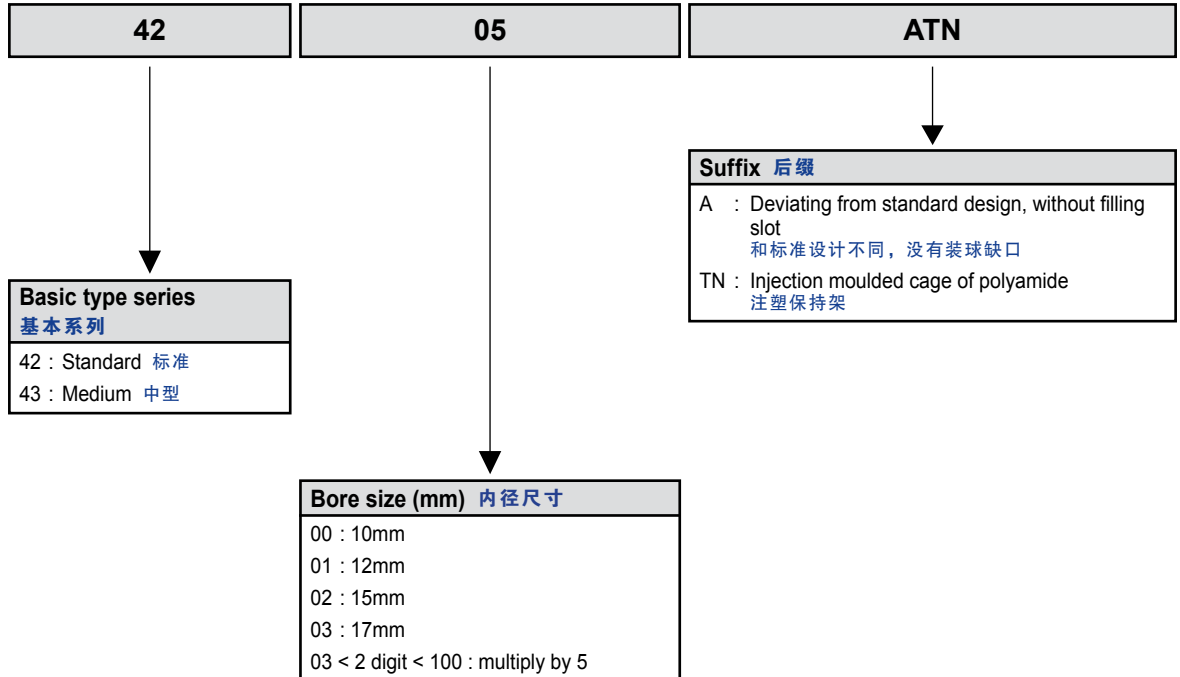


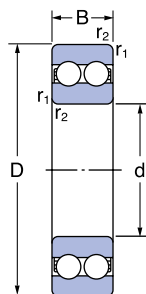
Flange with Seals - 2RS
轴承两侧有密封圈和
带法兰盘结构

Limiting Speed 极限转速		Chamfer Dimension 外角尺寸		Mass 重量				Designation 型号				
Grease 脂	Oil 油	$r_{1,2}$ min inch	$r_{1,2}$ min mm	Open 开式	Flange Open 开式带法 兰盘	Shield 防尘盖 结构	Flange Shield 防尘盖带 法兰盘	Reference Number 参考型号	Open 开式	Flange Open 开式带法 兰盘	Shields 防尘盖结构	Seals 密封圈型
r/min	r/min			g	g	g	g					
130.0	150.0	0.0039	0.10	0.05	0.07	-	-	RI 2	R 09	-	09	-
110.0	130.0	0.0039	0.10	0.10	0.12	0.15	0.20	RI 2.1/2	R 0*	FR 0*	ZZ*	-
90.0	110.0	0.0039	0.10	0.15	0.19	0.19	0.25	RI 3	R 1*	FR 1*	ZZ*	-
67.0	80.0	0.0039	0.10	0.40	0.46	0.53	0.6	RI 4	R 1-4*	FR 1-4*	ZZ*	-
80.0	95.0	0.0039	0.10	0.10	0.13	-	-	RI 3332	R 133	FR 133	-	-
80.0	95.0	0.0039	0.10	-	-	0.15	0.21	RI 3332	-	-	ZZ*	-
60.0	71.0	0.0059	0.15	0.60	0.67	1.15	1.25	RI 5	R 1-5*	FR 1-5*	ZZ*	-
67.0	80.0	0.0039	0.10	0.27	0.33	0.32	0.4	RI 418	R 144J*	FR 144J*	ZZ*	-
67.0	80.0	0.0039	0.10	0.27	0.33	0.40	0.48	RI 418	R 144*	FR 144*	ZZ*	-
60.0	67.0	0.0039	0.10	0.50	0.57	0.74	0.84	RI 518	R 2-5*	FR 2-5*	ZZ*	-
53.0	63.0	0.0059	0.15	0.96	1.05	1.23	1.35	RI 618	R 2-6*	FR 2-6*	ZZ*	-
56.0	67.0	0.0118	0.30	1.04	1.02	1.37	1.53	R 2	R 2*	FR 2*	ZZ*	-
53.0	63.0	0.0118	0.30	3.03	-	3.30	-	R 2A	R 2A	-	ZZ	-
53.0	63.0	0.0039	0.10	0.51	0.58	0.61	0.72	RI 5532	R 155*	FR 155*	ZZ*	-
53.0	63.0	0.0039	0.10	0.40	0.47	0.45	0.56	RI 5632	R 156*	FR 156*	ZZ*	-
50.0	60.0	0.0039	0.10	0.81	0.90	0.85	0.97	RI 6632	R 166*	FR 166*	ZZ*	-
43.0	53.0	0.0118	0.30	-	2.50	-	-	R 3	-	FR 3	-	-
43.0	53.0	0.0118	0.30	2.21	-	2.95	3.24	R 3	R 3*	-	ZZ*	2RS
38.0	45.0	0.0118	0.30	4.75	-	5.08	-	R 3A	R 3A	-	ZZ	2RS
48.0	56.0	0.0039	0.10	0.57	0.66	0.60	0.73	RI 614	R 168*	FR 168*	ZZ*	-
40.0	50.0	0.0059	0.15	1.60	1.71	2.32	2.54	RI 814	R 188*	FR 188*	ZZ*	2RS
38.0	45.0	0.0118	0.30	4.46	4.82	4.54	4.90	R 4	R 4*	FR 4*	ZZ*	2RS
36.0	43.0	0.0157	0.40	7.48	-	10.00	-	RI 1214	R 4A	-	ZZ	2RS
40.0	48.0	0.0059	0.15	1.39	1.54	1.57	1.72	RI 8516	R 1810*	FR 1810	ZZ	-
32.0	38.0	0.0157	0.40	9.02	9.71	11.70	12.40	RI 1438	R 6	FR 6*	ZZ	2RS

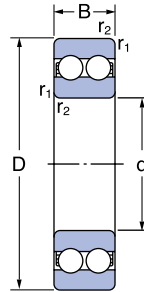
* Available with inner ring width extended by 0.015" each side.

■ Prefix & Suffix 前缀与后缀





Basic Dimensions 基本尺寸			Basic Load Ratings 基本载荷		Limiting Speed 极限转速		Chamfer Dimension 外角尺寸	Mass 重量	Designation 型号
d mm	D mm	B mm	Dynamic 动载荷 C kN	Static 静载荷 C ₀ kN	Grease 脂 r/min	Oil 油 r/min	r _{1,2} min mm	kg	
10	30	14	8.769	4.940	17,100	20,900	0.6	0.049	4200 ATN
12	32	14	10.070	5.890	16,150	19,000	0.6	0.053	4201 ATN
12	37	14	12.350	7.410	14,250	17,100	1.0	0.092	4301 ATN
15	35	14	11.305	7.125	13,300	16,150	0.6	0.059	4202 ATN
15	42	17	14.060	9.025	11,400	14,250	1.0	0.120	4302 ATN
17	40	16	14.060	9.025	11,400	14,250	0.6	0.090	4203 ATN
17	47	19	18.525	12.540	9,500	12,350	1.0	0.160	4303 ATN
20	47	18	16.910	11.875	9,500	12,350	1.0	0.140	4204 ATN
20	52	21	22.230	15.200	9,025	11,400	1.0	0.210	4304 ATN
25	52	18	18.050	13.870	8,550	10,450	1.0	0.160	4205 ATN
25	62	24	30.305	21.280	8,075	9,500	1.0	0.340	4305 ATN
30	62	20	24.700	19.760	7,600	9,025	1.0	0.260	4206 ATN
30	72	27	38.950	28.500	6,650	8,075	1.0	0.500	4306 ATN
35	72	23	33.345	27.075	6,365	7,600	1.0	0.400	4207 ATN
35	80	31	48.165	36.100	5,985	7,125	1.5	0.690	4307 ATN
40	80	23	35.245	30.875	5,700	6,650	1.0	0.500	4208 ATN
40	90	33	53.105	42.750	5,320	6,365	1.5	0.950	4308 ATN
45	85	23	37.050	34.200	5,320	6,365	1.0	0.540	4209 ATN
45	100	36	65.455	53.200	4,750	5,700	1.5	1.250	4309 ATN
50	90	23	38.950	38.000	4,750	5,700	1.0	0.580	4210 ATN
50	110	40	77.805	66.025	4,275	5,035	2.0	1.700	4310 ATN



Basic Dimensions 基本尺寸			Basic Load Ratings 基本载荷		Limiting Speed 极限转速		Chamfer Dimension 外角尺寸	Mass 重量	Designation 型号
d mm	D mm	B mm	Dynamic 动载荷 C kN	Static 静载荷 C ₀ kN	Grease 脂 r/min	Oil 油 r/min	r _{1,2} mm	kg	
55	100	25	42.655	41.800	4,560	5,320	1.5	0.800	4211 ATN
55	120	43	92.625	78.850	4,085	4,750	2.0	2.150	4311 ATN
60	110	28	54.340	52.250	4,275	5,035	1.5	1.100	4212 ATN
60	130	46	106.400	93.100	3,610	4,275	2.0	2.650	4312 ATN
65	120	31	64.220	63.650	3,800	4,560	1.5	1.450	4213 ATN
65	140	48	114.950	100.700	3,420	4,085	2.0	3.250	4313 ATN
70	125	31	66.690	69.825	3,420	4,085	1.5	1.500	4214 ATN
70	150	51	131.100	118.750	3,040	3,610	2.0	3.950	4314 ATN
75	130	31	69.160	76.000	3,230	3,800	1.5	1.600	4215 ATN
75	160	55	148.200	135.850	2,850	3,420	2.0	4.800	4315 ATN
80	140	33	76.570	85.500	3,040	3,610	2.0	2.000	4216 ATN
85	150	36	88.920	96.900	2,850	3,420	2.0	2.550	4217 ATN
90	160	40	106.400	115.900	2,660	3,230	2.0	3.200	4218 ATN
100	180	46	133.000	148.200	2,280	2,850	2.0	4.700	4220 ATN



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Contact: enquiry@nisbearings.com

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