



DEEP GROOVE BALL BEARINGS

PRODUCT CATALOGUE

深沟球轴承产品目录



PRECISION IN EVERY MOTION
每一次运转，皆源于精密

ENGINEERED FOR RELIABLE MOTION

为可靠运转而精密制造



ETERNUM Motion Technology Co., Ltd. was founded in 2002 in Ningbo, China. ETM is an integrated industrial products company combining manufacturing, sales, and international trade, supplying bearings, power tools, and related products to customers worldwide.

With over 30,000 m² of production facilities, automated equipment, engineering expertise, and strong supply-chain resources, we provide product development, OEM/ODM customization, non-standard solutions, and integrated sourcing services.

ETM is ISO 9001:2015 certified, and relevant raw materials and components have been tested by SGS for compliance with EU RoHS and REACH requirements. With stable quality, professional service, and extensive export experience, we are committed to reliable industrial product solutions and long-term global partnerships.

恒泰动力科技有限公司成立于2002年，位于中国宁波慈溪。ETM是一家集制造、销售与国际贸易于一体的综合型工业产品企业，向全球客户供应轴承、电动工具及相关产品。公司拥有超过30,000m²的生产基地，并具备自动化生产设备、工程技术能力和完善的供应链资源，可提供产品开发、OEM/ODM定制、非标准产品解决方案及综合采购服务。ETM已通过ISO 9001:2015质量管理体系认证，相关原材料和零部件经SGS检测，符合欧盟RoHS和REACH法规要求。凭借稳定的产品质量、专业服务和丰富的出口经验，我们致力于提供可靠的工业产品解决方案，并与全球客户建立长期合作关系。

20+

YEARS

二十余年经验

30,000+

m² FACILITY

生产基地

50+

Export Countries

出口国

50,000,000+

Annual Production Capacity

年产量

QUALITY BUILT INTO EVERY BEARING

将品质融入每一套轴承

01 SYSTEMATIC QUALITY CONTROL

ISO 9001:2015体系化质量控制

02 PRECISION INSPECTION

尺寸、旋转精度、噪音与振
动检测

03 GLOBAL COMPLIANCE

适用的RoHS与REACH要求

04 CUSTOM ENGINEERING

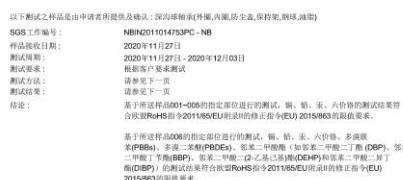
非标轴承与特定工况解决方
案

Stable quality. Consistent performance.
稳定品质 · 一致性能



过程受控，合规有据

ETM在生产与检验全过程实施系统化控制。ISO 9001:2015支持稳定一致的过程管理，原材料及零部件检测为适用的欧盟RoHS与REACH要求提供合规支持。



RoHS

BUILT FOR EVERYDAY INDUSTRIAL MOTION

服务广泛的工业运转场景

Deep Groove Ball Bearings are one of the most widely used types of rolling bearings. With excellent speed capability, low friction, and reliable operating performance, they are widely applied in automotive systems, industrial motors, pumps and compressors, home appliances, power tools, automation equipment, and general machinery.

深沟球轴承是应用最广泛的滚动轴承类型之一，凭借良好的高速性能、低摩擦和可靠运行特性，广泛应用于汽车、工业电机、泵与压缩机、家用电器、电动工具、自动化设备及各类通用机械中。



Power Tools



Industrial Motors



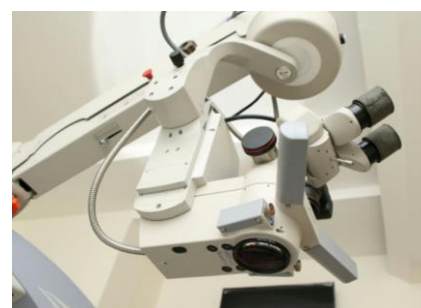
Home Appliances



Automotive



Office Equipment



Medical Equipment



Food and Beverage



Agricultural Machinery



Robotics

MEASURE WHAT MATTERS

关键性能，逐项验证

Our inspection system covers key stages of bearing quality verification, from dimensional accuracy to running performance. Equipped with precision measuring instruments, including bearing vibration testers, roundness measuring instruments, hardness testers, vision measuring systems, optical microscopes, and surface inspection equipment, we evaluate critical parameters such as bearing dimensions, roundness, surface quality, hardness, and vibration performance.

These inspection processes help ensure stable bearing accuracy, smooth operation, low noise performance, and consistent quality across production batches.

我们的检测体系覆盖轴承质量验证的关键环节，从尺寸精度到运行性能进行全面检测。通过配置轴承振动测试仪、圆度仪、硬度计、影像测量设备、光学显微镜以及表面检测设备，对轴承尺寸精度、圆度、表面质量、材料硬度和运行振动等关键指标进行检测。完善的检测流程确保轴承具有稳定的尺寸一致性、运行平稳性、低噪声表现以及批次间可靠的质量稳定性。



BVT Vibration Analyzer



Rockwell Hardness Tester



Vision Measuring Machine



Optical Microscope



Roundness Measuring Instrument



S0910-1 Bearing Noise Tester

MATERIALS SELECTED FOR LONG SERVICE LIFE

材料选择决定长期性能

BEARING MATERIALS / 轴承材料

RINGS & ROLLING ELEMENTS / 套圈与滚动体
High-quality GCr15 high-carbon chromium bearing steel.
采用优质GCr15高碳铬轴承钢。

CAGES / 保持架
Stamped 08# or 10# cold-rolled steel; reinforced engineering polymer is optional where required.
采用08#或10#冷轧钢板冲压；必要时可选增强工程塑料。

SHIELDS / 防尘盖
Special-purpose SPCC steel or 1Cr18Ni9 / 1Cr13 stainless steel.
采用SPCC专用钢板或1Cr18Ni9、1Cr13不锈钢板。

SEALS / 密封圈
NBR bonded to a surface-treated 08# or 10# steel insert; stainless inserts and special oil- and heat-resistant rubber are optional.
NBR与表面处理的08#或10#钢骨架热压成型；可选不锈钢骨架及耐油耐高温特种橡胶。

GCr15 CHEMICAL COMPOSITION (%) / 化学成分 (%)

Grade	C	Si	Mn	Cr	Mo	P	S	Cu	Ni
GCr15	0.95-1.05	0.15-0.35	0.25-0.45	1.40-1.65	≤0.10	≤0.025	≤0.025	≤0.25	≤0.30

GCr15 STANDARD CROSS-REFERENCE / 标准牌号对照

China GB	ISO	USA AISI	Germany DIN	Japan JIS	Sweden SKF
GCr15	683-17	52100	100Cr6	SUJ2	SKF3

COMMON PRECISION CLASS COMPARISON / 常用精度等级对照

Bearing precision covers dimensional accuracy and running accuracy. Common classes include Grade 0, Grade 6, Grade 5 and Grade 4.
轴承精度包括尺寸精度和旋转精度。常用等级包括0级、6级、5级和4级。

Standard	Normal	Class 6	Class 5	Class 4
GB	0	6	5	4
ISO	0	6	5	4
DIN	P0	P6	P5	P4
JIS	0	6	5	4
ANSI	ABEC 1	ABEC 3	ABEC 5	ABEC 7

INNER & OUTER RING TOLERANCES — P0 / ABEC 1

内圈与外圈尺寸公差 — P0 / ABEC 1

 NORMAL / ABEC 1 · unit: μm / 单位: μm

INNER RING / 内圈

d (mm)		Δdmp		Vdsp			Vdmp	Kia	ΔBs			VBs
				9	0,1	2, 3, 4			U	Normal L	Modified L ^a	
>	≤	U	L	max			max	max	U	Normal L	Modified L ^a	max
-	0.6	0	-8	10	8	6	6	10	0	-40	-	12
0.6	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	19	0	-150	-380	25
80	120	0	-20	25	25	15	15	25	0	-200	-380	25
120	180	0	-25	31	31	30	30	31	0	-250	-500	30

 a: Applies to inner and outer rings of single bearings made for paired and stack assemblies. Also applies to inner rings with tapered bores where $d \geq 50$ mm.

OUTER RING / 外圈

D (mm)		ΔDmp		VDsp ^a				VDmp ^a	Kea	ΔCs		VCs
				Open Bearing			Sealed Bearing			U	L	
>	≤	U	L	9	0, 1	2, 3, 4	2, 3, 4	max	max	U	L	max
—	0.6	0	-8	10	8	6	10	6	15	Same as the corresponding ΔBs and VBs values of the same bearing inner ring.		
0.6	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	25	14	30	14	40			
150	180	0	-25	31	31	19	38	19	45			

a: Applicable before installation or after removal of the snap ring on the inner or outer ring.

INNER & OUTER RING TOLERANCES — P6 / ABEC 3

内圈与外圈尺寸公差 — P6 / ABEC 3

CLASS 6 / ABEC 3 · unit: μm / 单位: μm

INNER RING / 内圈

d (mm)		Δdmp		Vdsp			Vdmp	Kia	ΔBs			VBs
				9	0,1	2, 3, 4						
>	≤	U	L	max			max	max	U	Normal L	Modified L ^a	max
-	0.6	0	-7	9	7	5	5	5	0	-40	-	12
0.6	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

a: Applies to inner and outer rings of single bearings made for paired and stack assemblies. Also applies to inner rings with tapered bores where $d \geq 50$ mm.

OUTER RING / 外圈

D (mm)		ΔDmp		VDsp^a				VDmp^a	Kea	ΔCs		VCs
				Open Bearing			Sealed Bearing					
>	≤	U	L	9	0, 1	2, 3, 4	2, 3, 4	max	max	U	L	max
-	2.5	0	-7	9	7	5	9	5	8	Same as the corresponding ΔBs and VBs values of the same bearing inner ring.		
2.5	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			
150	180	0	-18	23	23	14	30	14	23			

a: Applicable before installation or after removal of the snap ring on the inner or outer ring.

INNER & OUTER RING TOLERANCES — P5 / ABEC 5

内圈与外圈尺寸公差 — P5 / ABEC 5

 CLASS 5 / ABEC 5 · unit: μm / 单位: μm

INNER RING / 内圈

d (mm)		Δdmp		Vdsp		Vdmp	Kia	Sd	Sia ^b	ΔBs			VBs
				9	0,1,2,3,4								
>	≤	U	L	max		max	max	max	max	U	Normal L	Modified L ^a	max
-	0.6	0	-5	5	4	3	4	7	7	0	-40	-250	5
0.6	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	5	8	10	10	0	-250	-380	8

 a: Applies to inner and outer rings of single bearings made for paired and stack assemblies. Also applies to inner rings with tapered bores where $d \geq 50$ mm.

b: Applies only to groove ball bearings

OUTER RING / 外圈

D (mm)		ΔDmp		VDsp		VDmp	Kea	SD ^a	Sea ^b	ΔCs		VCs
				9	0,1,2,3,4							
>	≤	U	L	max		max	max	max	max	U	L	max
-	2.5	0	-5	5	4	3	5	8	8	Same as the corresponding inner-ring ΔBs values		5
2.5	6	0	-5	5	4	3	5	8	8			5
6	18	0	-5	5	4	3	5	8	8			5
18	30	0	-6	6	5	3	6	8	8			5
30	50	0	-8	8	6	4	8	8	8			5
50	80	0	-9	9	7	5	9	8	8			6
80	120	0	-10	10	8	5	10	9	9			8
120	150	0	-11	11	8	6	11	10	10			8
150	180	0	-13	13	10	7	13	11	11			8

a: Not applicable to bearings with flanged outer rings.

b: Applicable to groove ball bearings only.

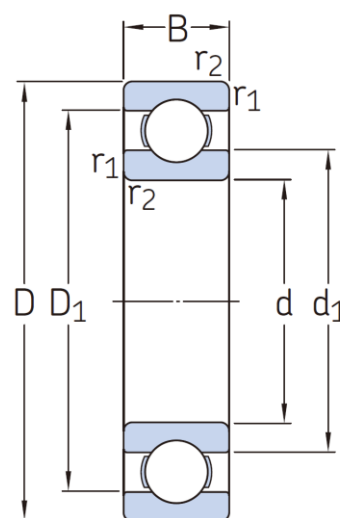
BEARING DESIGNATION SYSTEM

轴承代号系统

Standard suffixes and configurations / 常用后缀与结构形式

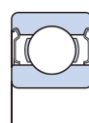
6 2 05

6 — Deep groove ball bearing / 深沟球轴承
 2 — Dimension series / 尺寸系列
 05 — Bore code / 内径代号

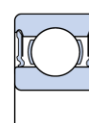


Z / 2Z — Metal shield, one / both sides
 RS / 2RS — Contact seal, one / both sides
 RZ / 2RZ — Low-friction seal, one / both sides
 N / NR — Snap-ring groove / groove with ring

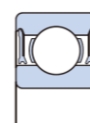
C2/C3/C4 — Internal clearance options
 P6/P5/P4 — Precision classes



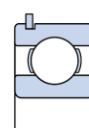
2Z



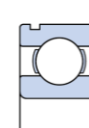
2RS



2RZ



NR



N

VIBRATION AND NOISE

CLASSIFICATION

振动与噪声等级分类

Acceleration limits · unit: dB / 加速度限值 · 单位: dB

d mm	0 DIAMETER SERIES					2 DIAMETER SERIES					3 DIAMETER SERIES				
	Z	Z1	Z2	Z3	Z4	Z	Z1	Z2	Z3	Z4	Z	Z1	Z2	Z3	Z4
3	31	30	28	24	20	32	31	28	26	22	33	32	29	27	23
4	31	30	28	24	20	32	31	28	26	22	33	32	29	27	23
5	33	32	30	26	22	34	33	30	28	24	35	33	31	29	25
6	33	32	30	26	22	34	33	30	28	24	35	33	31	29	25
7	35	34	31	27	23	36	34	32	30	25	37	35	33	31	26
8	35	34	31	27	23	36	34	32	30	25	37	35	33	31	26
9	37	36	32	28	24	38	36	33	31	26	39	37	35	33	28
10	39	38	34	29	24	40	38	35	31	26	42	40	36	33	28
12	40	39	35	30	25	41	39	35	31	26	43	41	36	33	28
15	41	40	36	31	26	42	40	37	32	27	44	42	38	34	29
17	42	40	36	31	26	43	41	37	32	27	45	43	38	34	29
20	43	41	37	32	27	44	42	38	34	29	46	44	39	35	30
22	43	41	37	32	27	44	42	38	34	29	46	44	39	35	30
25	44	42	38	34	30	45	43	39	36	32	47	45	40	37	33
28	45	43	39	35	31	46	44	40	37	33	48	46	41	38	34
30	45	43	39	35	31	46	44	40	37	33	48	46	41	38	34
32	46	44	40	36	32	47	45	41	38	34	49	47	42	39	35
35	47	45	41	37	33	48	46	42	39	35	50	48	43	40	36
40	49	47	42	38	34	50	48	43	40	36	52	50	45	41	37
45	51	49	44	41	38	52	50	45	42	39	54	52	47	43	40
50	53	50	46	43	40	54	51	47	44	41	56	53	49	45	42
55	55	52	48	45	42	56	53	49	46	43	58	55	50	47	44
60	57	54	50	47	44	58	55	50	47	44	60	57	52	49	46
65	45	44	42	37	-	46	45	43	38	-	47	46	44	39	-
70	46	45	43	38	-	47	46	44	39	-	48	47	45	40	-
75	47	46	44	39	-	48	47	45	40	-	49	48	46	41	-
80	48	47	45	40	-	49	48	46	41	-	50	49	47	42	-
85	49	48	46	41	-	50	49	47	42	-	52	51	48	43	-
90	50	49	48	43	-	52	51	49	44	-	54	53	50	45	-
95	52	51	50	45	-	54	53	51	46	-	56	55	52	47	-
100	54	53	52	47	-	56	55	53	48	-	58	57	54	49	-
105	56	55	54	49	-	58	57	55	50	-	60	59	56	51	-
110	58	57	56	51	-	60	59	57	52	-	62	61	58	53	-
120	60	59	58	53	-	62	61	59	54	-	64	63	60	55	-

VIBRATION VELOCITY LIMITS

振动速度限值

Velocity limits · unit: $\mu\text{m/s}$ / 速度限值 · 单位: $\mu\text{m/s}$

d mm	V1			V2			V3			V4		
	Low L	Mid M	High H	Low L	Mid M	High H	Low L	Mid M	High H	Low L	Mid M	High H
3	60	35	32	48	26	22	31	16	15	28	10	10
4	60	35	32	48	26	22	31	16	15	28	10	10
5	74	48	40	58	36	30	35	21	18	32	11	11
6	74	48	40	58	36	30	35	21	18	32	11	11
7	92	66	54	72	48	40	44	28	24	38	12	12
8	92	66	54	72	48	40	44	28	24	38	12	12
9	92	66	54	72	48	40	44	28	24	38	12	12
10	120	80	70	90	60	50	55	35	30	45	14	15
12	120	80	70	90	60	50	55	35	30	45	14	15
15	150	100	85	110	78	60	65	46	35	52	18	18
17	150	100	85	110	78	60	65	46	35	52	25	25
20	180	125	100	130	100	75	80	60	45	60	25	25
22	180	125	100	130	100	75	80	60	45	60	30	32
25	180	125	100	130	100	75	80	60	45	60	30	32
28	180	125	100	130	100	75	80	60	45	60	35	40
30	200	150	130	150	120	100	90	75	60	70	35	40
32	200	150	130	150	120	100	90	75	60	70	35	40
35	200	150	130	150	120	100	90	75	60	70	42	45
40	240	180	160	180	150	130	110	90	80	82	50	50
45	240	180	160	180	150	130	110	90	80	82	60	60
50	280	200	200	210	160	160	125	100	100	95	70	70
55	280	220	200	210	180	180	125	110	110	95	70	70
60	320	220	240	240	180	200	145	110	130	100	80	80
65	180	160	240	130	100	150	105	80	105	50	50	75
70	200	180	280	150	120	200	110	90	135	58	58	88
75	200	180	280	150	120	200	110	90	135	58	58	88
80	240	210	320	180	120	240	130	110	160	65	65	100

BEARING GREASE SPECIFICATIONS

轴承润滑脂规格

Common bearing greases · source entries retained / 常用轴承润滑脂

Manufacturer	Brand	Base oil	Drop °C	Consistency	Range °C	Characteristics
Sinopec	Low-noise bearing grease	Mineral	196	281	-20–120	Low-noise grease
	HTHS bearing grease	Mineral	305	281	-40–160	High-temperature, low-noise
	BLE bearing grease	Mineral	260	280	-30–200	High-temperature, low-noise
Exxon	Beacon 325	Diester	193	290	-60–120	Low-temperature
	Polyrex EM	Mineral	260	288	-40–180	High-temperature, low-noise
Kyodo Yushi	Multemp SRL	Polyol ester + diester	190	250	-50–150	Low-noise, long-life
	Multemp SB-M	Synthetic oil	220	260	-40–200	High-temperature, low-noise
	Multemp PS2	Diester	189	280	-50–110	Low-temperature
	ET-K	Synthetic oil / ester	260	300	-40–200	High-temperature, high-speed
Klüber	Isoflex Super LDS 18	Diester	190	280	-60–130	Low-temperature
	Asonic GLY 32	Synthetic	190	265–280	-50–140	Low-temperature
	Asonic GHY 72	Ester / mineral	250	250–280	-40–180	High/low-temperature, low-noise
	Barrierta L 55/2	Fluorinated	—	280	-35–260	High/low-temperature
Shell	Alvania RL2	Mineral	182	272	-25–120	Normal-temperature
	Alvania RLQ2	Mineral	195	266	-25–120	Low-noise, high-speed
Mobil	Mobil 28	Synthetic hydrocarbon	260	280	-60–180	High/low-temperature
	HP 222	Synthetic oil	190	280	-20–120	Normal-temperature
DuPont	Krytox GPL 226	PFAE	—	—	-36–260	Universal joint grease
	Krytox GPL 205	PFAE	—	—	-36–204	High-temperature
Caltex	Chevron SRI 2	Mineral	243	280	-30–150	High-temperature
	RPM Grease SRI OEM	Mineral	243	280	-30–150	High-temperature, low-noise

60 SERIES

Deep Groove Ball Bearings / 深沟球轴承 60系列

Compact cross-section, low friction and high-speed capability.
结构紧凑、摩擦低，适用于高速运转及有限安装空间。

Bearing	d mm / inch	D mm / inch	B mm / inch	Cr kN	C0r kN	Grease rpm	Oil rpm	Balls	Ball mm	Mass lb	Mass kg
604	4 / .1575	12 / .4724	4 / .1575	.97	.36	47,000	55,000	8	1.588	.0088	.004
605	5 / .1969	14 / .5512	5 / .1969	1.33	.51	41,000	51,000	8	2.000	.0077	.0035
606	6 / .2362	17 / .6693	6 / .2362	2.19	.87	38,000	45,000	8	2.831	.0154	.007
607	7 / .2756	19 / .7480	6 / .2362	2.34	.95	35,000	42,000	7	3.500	.0154	.007
608	8 / .3149	22 / .8661	7 / .2756	3.45	1.40	32,000	38,000	7	3.969	.0253	.0115
609	9 / .3543	24 / .9449	7 / .2756	3.90	1.66	31,000	37,000	7	3.969	.0323	.0147
6000	10 / .3937	26 / 1.0236	8 / .3150	4.75	1.96	30,000	36,000	7	4.763	.0418	.019
6001	12 / .4724	28 / 1.1024	8 / .3150	5.40	2.36	29,000	33,000	8	4.763	.0453	.0206
6002	15 / .5906	32 / 1.2598	9 / .3543	5.85	2.85	25,000	29,000	9	4.763	.066	.030
6003	17 / .6693	35 / 1.3780	10 / .3937	6.00	3.24	23,000	26,000	10	4.763	.0858	.039
6004	20 / .7874	42 / 1.6535	12 / .4724	9.38	5.03	18,000	21,000	9	6.350	.1518	.069
6005	25 / .9843	47 / 1.8504	12 / .4724	10.07	5.85	16,000	19,000	10	6.350	.176	.080
6006	30 / 1.1811	55 / 2.1654	13 / .5118	13.23	8.30	13,000	15,000	11	7.144	.2508	.114
6007	35 / 1.3780	62 / 2.4409	14 / .5512	15.98	10.28	12,000	14,000	11	7.938	.3256	.148
6008	40 / 1.5748	68 / 2.6772	15 / .5906	16.78	11.54	10,000	12,000	12	7.938	.4158	.189
6009	45 / 1.7717	75 / 2.9528	16 / .6299	19.89	13.99	9,200	11,000	12	8.731	.5192	.236
6010	50 / 1.9685	80 / 3.1496	16 / .6299	20.77	15.38	8,400	9,800	13	8.731	.5588	.254

Please confirm clearance, seals and grease when ordering.
订购时请确认游隙、密封形式及润滑脂要求。

62 SERIES

Deep Groove Ball Bearings / 深沟球轴承 62系列

Balanced load capacity, speed and overall dimensions.
兼顾承载能力、转速与紧凑尺寸，适用范围广。

Bearing	d mm / inch	D mm / inch	B mm / inch	Cr kN	C0r kN	Grease rpm	Oil rpm	Balls	Ball mm	Mass lb	Mass kg
624	4 / .1575	13 / .5118	5 / .1968	1.310	.490	42,000	50,000	6	2.381	.0106	.0048
625	5 / .1969	16 / .6299	5 / .1968	1.760	.680	37,000	44,000	6	3.175	.011	.005
626	6 / .2362	19 / .7480	6 / .2362	2.340	.950	34,000	41,000	7	3.500	.0176	.008
627	7 / .2756	22 / .8661	7 / .2756	3.450	1.400	32,000	37,000	7	3.969	.0286	.013
628	8 / .3149	24 / .9448	8 / .3149	4.000	1.660	31,000	36,000	7	3.969	.0374	.017
629	9 / .3543	26 / 1.0236	8 / .3149	4.750	1.960	27,000	32,000	7	4.763	.0418	.019
6200	10 / .3937	30 / 1.1811	9 / .3543	5.400	2.390	25,000	30,000	8	4.763	.066	.030
6201	12 / .4724	32 / 1.2598	10 / .3937	7.280	3.100	23,000	28,000	7	5.953	.0792	.036
6201-1/2	12.7 / .5	32 / 1.2598	10 / .3937	7.280	3.100	23,000	28,000	7	5.953	.0792	.036
6202	15 / .5906	35 / 1.3780	11 / .4331	7.640	3.720	20,000	25,000	8	5.953	.1012	.046
6202-5/8	15.875 / .625	35 / 1.3780	11 / .4331	7.640	3.720	20,000	25,000	8	5.953	.1012	.046
6202-16	16 / .6299	35 / 1.3780	11 / .4331	7.640	3.720	20,000	25,000	8	5.953	.1012	.046
6203	17 / .6693	40 / 1.5748	12 / .4724	9.570	4.790	18,000	22,000	8	6.747	.143	.065
6203-5/8	15.875 / .625	40 / 1.5748	12 / .4724	9.570	4.790	18,000	22,000	8	6.747	.143	.065
6204	20 / .7874	47 / 1.8504	14 / .5512	12.840	6.650	16,000	18,000	8	7.938	.2354	.107
6205	25 / .9843	52 / 2.0472	15 / .5906	14.020	7.880	13,000	16,000	9	7.938	.275	.125
6206	30 / 1.1811	62 / 2.4409	16 / .6299	19.460	11.310	12,000	14,000	9	9.525	.4422	.201
6207	35 / 1.3780	72 / 2.8346	17 / .6693	27.060	15.330	10,000	12,000	8	12.000	.6314	.287
6208	40 / 1.5748	80 / 3.1496	18 / .7087	29.520	18.140	8,800	10,000	9	12.000	.803	.365
6209	45 / 1.7717	85 / 3.3465	19 / .7480	29.360	19.190	7,800	9,200	10	11.509	.924	.420
6210	50 / 1.9685	90 / 3.5433	20 / .7874	35.070	23.220	7,100	8,300	10	12.700	1.0252	.466

Please confirm clearance, seals and grease when ordering.
订购时请确认游隙、密封形式及润滑脂要求。

63 SERIES

Deep Groove Ball Bearings / 深沟球轴承 63系列

Higher load capacity for demanding operating conditions.
承载能力更高，适用于较重载荷及严苛工况。

Bearing	d mm / inch	D mm / inch	B mm / inch	Cr kN	C0r kN	Grease rpm	Oil rpm	Balls	Ball mm	Mass lb	Mass kg
635	5 / .1969	19 / .7480	6 / .2362	2.340	.950	34,000	42,000	9	2.381	.0242	.011
636	6 / .2362	22 / .8661	7 / .2756	2.550	1.370	32,000	38,000	7	3.696	.0308	.014
637	7 / .2756	26 / 1.0236	9 / .3543	3.500	2.780	30,000	36,000	7	4.763	.055	.025
638	8 / .3149	28 / 1.1024	9 / .3543	3.540	1.990	28,000	32,000	7	4.763	.0638	.029
639	9 / .3543	30 / 1.1811	10 / .3937	3.930	2.230	25,000	30,000	8	4.763	.0792	.036
6300	10 / .3937	35 / 1.3780	11 / .4331	7.650	3.470	23,000	27,000	7	6.350	.1188	.054
6301	12 / .4724	37 / 1.4567	12 / .4724	7.690	3.500	21,000	25,000	7	6.350	.1298	.059
6302	15 / .5906	42 / 1.6535	13 / .5118	11.450	5.430	19,000	22,000	7	7.938	.1804	.082
6303	17 / .6693	47 / 1.8504	14 / .5512	13.580	6.580	16,000	19,000	7	8.731	.2486	.113
6304	20 / .7874	52 / 2.0472	15 / .5906	15.940	7.880	14,000	17,500	7	9.525	.3124	.142
6305	25 / .9843	62 / 2.4409	17 / .6693	22.410	11.510	12,000	14,000	7	11.509	.4972	.226
63/28	28 / 1.1024	68 / 2.6772	18 / .7087	24.960	13.830	11,000	13,000	8	11.509	.6512	.296
6306	30 / 1.1811	72 / 2.8346	19 / .7480	27.030	15.260	10,000	12,000	8	12.000	.7678	.349
6307	35 / 1.3780	80 / 3.1496	21 / .8268	33.390	19.290	8,800	10,000	8	13.494	1.012	.460
6308	40 / 1.5748	90 / 3.5433	23 / .9055	40.760	24.010	7,800	9,200	8	15.081	1.419	.645
6309	45 / 1.7717	100 / 3.9370	25 / .9843	48.890	29.560	7,000	8,200	8	16.669	1.852 4	.842
6310	50 / 1.9685	110 / 4.3307	27 / 1.0630	57.540	35.340	6,400	7,500	8	18.256	2.389 2	1.086

Please confirm clearance, seals and grease when ordering.
订购时请确认游隙、密封形式及润滑脂要求。

68 SERIES

Thin-Section Bearings / 薄壁深沟球轴承 68系列

Ultra-thin section and low mass for compact mechanisms.
超薄截面、重量轻，适用于小型化和轻量化机构。

Bearing	d mm / inch	D mm / inch	B open mm / inch	B closed mm / inch	Cr kN	C0r kN	Grease rpm	Oil rpm	Balls	Ball mm	Mass lb	Mass kg
685	5 / .1969	11 / .4331	3 / .1181	5 / .1969	.715	.282	46,000	54,000	8	1.588	.0053	.0024
686	6 / .2362	13 / .5118	3.5 / .1378	5 / .1969	1.080	.440	40,000	50,000	8	2.000	.0059	.0027
687	7 / .2756	14 / .5512	3.5 / .1378	5 / .1969	1.170	.510	39,000	49,000	9	2.000	.0066	.003
688	8 / .3150	16 / .6299	4 / .1575	5 / .1969	1.330	.585	37,000	45,000	9	2.381	.0088	.004
689	9 / .3543	17 / .6693	4 / .1575	5 / .1969	1.720	.820	35,000	42,000	11	2.000	.0088	.004
6800	10 / .3937	19 / .7480	5 / .1969	5 / .1969	1.830	.925	33,000	40,000	9	2.381	.011	.005
6800W7	10 / .3937	19 / .7480	7 / .2756	7 / .2756	1.830	.925	33,000	40,000	9	2.381	.0132	.006
6801	12 / .4724	21 / .8268	5 / .1969	5 / .1969	1.920	1.040	32,000	38,000	12	2.381	.0132	.006
6802	15 / .5906	24 / .9449	5 / .1969	5 / .1969	2.080	1.260	28,000	32,000	14	2.381	.0154	.007
6803	17 / .6693	26 / 1.0236	5 / .1969	5 / .1969	2.810	1.720	25,000	30,000	15	2.381	.0176	.008
6804	20 / .7874	32 / 1.2598	7 / .2756	7 / .2756	4.010	2.470	23,000	28,000	13	3.500	.033	.015
6805	25 / .9843	37 / 1.4567	7 / .2756	7 / .2756	4.310	2.950	18,000	23,000	15	3.500	.044	.020
6806	30 / 1.1811	42 / 1.6535	7 / .2756	7 / .2756	4.700	3.620	16,000	19,000	18	3.500	.055	.025
6807	35 / 1.3780	47 / 1.8504	7 / .2756	7 / .2756	4.900	4.050	13,000	17,000	22	3.175	.0638	.029
6808	40 / 1.5748	52 / 2.0472	7 / .2756	7 / .2756	5.100	4.400	12,000	15,000	24	3.175	.0726	.033
6809	45 / 1.7717	58 / 2.2835	7 / .2756	7 / .2756	6.400	6.100	11,000	13,000	27	3.175	.088	.040
6810	50 / 1.9685	65 / 2.5591	7 / .2756	7 / .2756	6.670	6.800	9,600	11,000	24	3.969	.1144	.052

Please confirm clearance, seals and grease when ordering.
订购时请确认游隙、密封形式及润滑脂要求。

69 SERIES

Thin-Section Bearings / 薄壁深沟球轴承 69系列

Slim profile with practical load capacity and speed.
薄型结构兼具实用承载能力与良好转速性能。

Bearing	d mm / inch	D mm / inch	B mm / inch	Cr kN	C0r kN	Grease rpm	Oil rpm	Balls	Ball mm	Mass lb	Mass kg
693	3 / .1181	8 / .3150	3 / .1181	.560	.180	61,000	68,000	6	1.588	.0013	.0006
W693	3 / .1181	8 / .3150	4 / .1575	.560	.180	61,000	68,000	6	1.588	.0015	.0007
694	4 / .1575	11 / .4331	4 / .1575	.715	.276	50,000	56,000	7	2.000	.004	.0018
695	5 / .1969	13 / .5118	4 / .1575	1.080	.430	44,000	51,000	8	2.000	.0053	.0024
696	6 / .2362	15 / .5906	5 / .1969	1.350	.530	40,000	46,000	8	2.381	.0084	.0038
697	7 / .2756	17 / .6693	5 / .1969	1.610	.715	37,000	43,000	9	2.381	.0114	.0052
698	8 / .3149	19 / .7480	6 / .2362	1.990	.865	37,000	42,000	7	3.500	.0161	.0073
699	9 / .3543	20 / .7874	6 / .2362	2.480	1.090	34,000	40,000	9	2.381	.018	.0082
6900	10 / .3937	22 / .8661	6 / .2362	2.700	1.270	32,000	38,000	12	2.381	.0198	.009
6901	12 / .4724	24 / .9449	6 / .2362	2.890	1.460	31,000	36,000	9	3.500	.0242	.011
6902	15 / .5906	28 / 1.1024	7 / .2756	4.360	2.240	27,000	31,000	10	3.969	.0352	.016
6903	17 / .6693	30 / 1.1811	7 / .2756	4.650	2.580	25,000	29,000	11	3.969	.0396	.018
6904	20 / .7874	37 / 1.4567	9 / .3543	6.370	3.680	20,000	24,000	11	4.763	.0792	.036
6905	25 / .9843	42 / 1.6535	9 / .3543	7.010	4.550	17,000	21,000	13	4.763	.0924	.042
6906	30 / 1.1811	47 / 1.8504	9 / .3543	7.240	5.010	16,000	19,000	14	4.763	.1056	.048
6907	35 / 1.3780	55 / 2.1654	10 / .3937	11.200	7.450	13,000	17,000	13	5.953	.1628	.074
6908	40 / 1.5748	62 / 2.4409	12 / .4724	14.600	10.200	11,000	13,000	13	6.747	.242	.110
6909	45 / 1.7717	68 / 2.6772	12 / .4724	15.100	11.200	9,800	12,000	14	6.747	.2816	.128
6910	50 / 1.9685	72 / 2.8346	12 / .4724	15.600	12.200	9,000	11,000	15	6.747	.2904	.132

Please confirm clearance, seals and grease when ordering.
订购时请确认游隙、密封形式及润滑脂要求。

MR SERIES

MR

Miniature Bearings / 微型深沟球轴承 MR系列

Miniature bearings for compact, high-speed precision applications.
面向紧凑、高速及精密应用的微型轴承系列。

Bearing	d mm / inch	D mm / inch	B open mm / inch	B closed mm / inch	Chamfer mm / inch	Cr N	C0r N	Mass kg
MR84	4 / .1575	8 / .3150	2 / .0787	3 / .1181	.1 / .004	181	78	.00056
MR85	5 / .1969	8 / .3150	2 / .0787	2.5 / .0984	.08 / .003	181	78	.00025
MR95	5 / .1969	9 / .3543	2.5 / .0984	3 / .1181	.15 / .006	332	142	.00058
MR104	4 / .1575	10 / .3937	3 / .1181	4 / .1575	.15 / .006	715	265	.00133
MR105	5 / .1969	10 / .3937	3 / .1181	4 / .1575	.15 / .006	460	196	.00126
MR106	6 / .2362	10 / .3937	2.5 / .0984	3 / .1181	.1 / .004	460	196	.00070
MR115	5 / .1969	11 / .4331	4 / .1575	4 / .1575	.15 / .006	735	284	.00062
MR117	7 / .2756	11 / .4331	2.5 / .0984	3 / .1181	.1 / .004	450	206	.00071
MR126	6 / .2362	12 / .4724	3 / .1181	4 / .1575	.15 / .006	774	329	.00166
MR128	8 / .3150	12 / .4724	2.5 / .0984	3.5 / .1378	.1 / .004	510	255	.00090
MR137	7 / .2756	13 / .5118	3 / .1181	4 / .1575	.15 / .006	715	265	.00201
MR148	8 / .3150	14 / .5512	3.5 / .1378	4 / .1575	.15 / .006	715	265	.00219
MR166	6 / .2362	16 / .6299	6 / .2362	6 / .2362	.15 / .006	1470	600	.00580

Please confirm clearance, seals and grease when ordering.
订购时请确认游隙、密封形式及润滑脂要求。



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