

调心滚子轴承 Spherical Roller Bearing



基本类型 Basic type

大部分外径320mm以下的调心滚子轴承为结构增强型E系列轴承。与其它轴承不同的是这些轴承内圈上没有中挡边，因此它们的滚子更长。这样E系列调心滚子轴承的额定载荷明显比其它普通调心滚子轴承大。

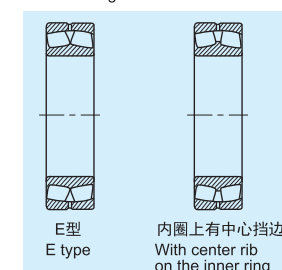
WKB 调心滚子轴承有圆柱形孔或圆锥形孔。

圆锥孔的调心滚子轴承通过紧定套或退卸套安装到轴上。

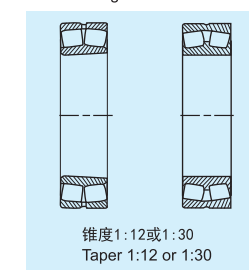
Most of the Spherical roller bearings in OD less than 320mm are the structure reinforced E series bearings. Their difference from other bearings is that their inner ring has no center rib, therefore their roller is longer. The rated load of these E series spherical roller bearings is obviously more than other common Spherical roller bearing.

WKB Spherical roller bearings have the cylindrical bore or tapered bore. The Spherical roller bearing with tapered bore is mounted on the shaft through adapter sleeve or withdrawal sleeve.

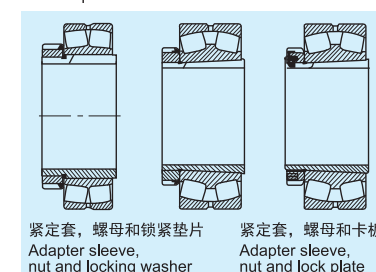
圆柱孔调心滚子轴承
Cylindrical bore Spherical roller bearing



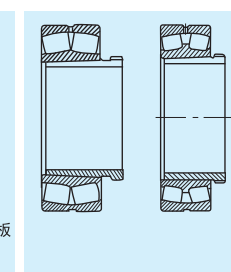
圆锥孔调心滚子轴承
Tapered bore Spherical roller bearing



带紧定套的调心滚子轴承
Spherical roller bearing with adapter sleeve



带退卸套的调心滚子轴承
Spherical roller bearing with withdrawal sleeve



振动机械用调心滚子轴承
Bearings for Vibrating Machines

概述
Introduction

在工业生产过程中，往往需要将各种原料（如矿石、煤炭、石料等）和各种初级产品（如水泥、食盐、味精等）按物料粒度大小分成若干个级别，或将其中的水分、杂质等去除，以进行下一步的加工和提高产品品质，这就要求用到筛分机械。

In the production of industry, it's common to separate all kinds of material (for example ore , coal, stone etc) and preliminary products (like cerement, salt, and aginomoto etc) into several grades based on the dimension of particles. Sometimes, in order to proceed next process and improve the product quality, water or other disturbance have to been eliminated, in this case, screening machine will be applied.

振动筛是常见的筛分机械，它在各行各业有着极为广泛的应用。从矿山到冶金，从建材到电力，从筑路架桥到食品化工，到处都有振动筛在工作。可以毫不夸张地说，没有振动机械就无法制造出合格的、高品质的产品。

Vibrating screen is the most common screening machine which is applied in every industry field widely. From mining to metallurgy, from construction to electric power, from road & bridge construction to food chemical, vibrating screens operates everywhere. Frankly speaking, without vibrating machines, no qualified or high quality products can be produced.

振动筛是怎样工作的？它又是如何对物料进行筛分的呢？
How does vibrating screen work? How does it screen the materials?

我们都有这样的经验，当汽车转弯时，坐在汽车里的人的身体即向转弯的外侧倾斜，这便是离心力。振动筛正是依靠这一原理制成的惯性振动器来工作的。

We all have such experience that while the car turns, passengers in the car will lean over to the turning side which is called centrifugal force. Vibrating screen is produced based on this theory.

人们在轴上装上偏心体，用电动机（或其它动力机）带动其旋转，这时由偏心体产生一向外（相对于轴心）的力。（如同坐在车里的人一样）偏心体的质量越大，距轴心的距离越远，轴的转速越高，离心力越大。与汽车转弯不同的是，此偏心体做的圆周运动，产生的是沿圆周方向的连续的力。这就是振动器（或者叫激振器），将它以适当的方式，安装在筛机适当的位置，就能带动筛机做圆周运动，圆振动筛便产生了。

振动机械用
调心滚子轴承
Spherical roller bearings
applied in vibrating
machines

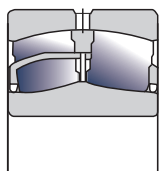
Eccentric body is mounted on the axle and motivates it with motor (or other power machine), in this condition, a kind of outward force (opposite to the axle center) occurs. It' s the same as the passengers in the car, the more the mass of the eccentric body, the farer the distance to the axle center and the faster the axle rotates, the more the centrifugal force will be. It' s different to the car turns, this eccentric body operates with circular motion and the force generated is a kind of continuous force in circumferential direction. The vibrating machine is mounted on the screening machine properly to motivate the screening machine to operate in circular motion. Round vibrating screen is invented accordingly.

振动筛的主要配件除了振动电机之外就要数到轴承了，轴承的好坏直接影响到振动筛的质量。经过近几年的专心研究，我公司已经在振动筛上使用的调心滚子轴承取得很大的成绩，现在已经系列生产振动筛上使用的调心滚子轴承产品。

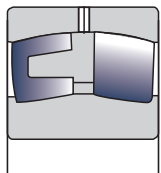
The major accessories of vibrating screen are bearings expect for motors. The quality of bearings will directly affect the function of vibrating screens. After several year study and research, WKB have made great progress in producing spherical roller bearings for vibrating screen. Now, WKB have produced spherical roller bearings in vibrating screen in series.

振动机械的轴承应用中，因振动筛或激振器，引起轴承中滚子和保持架的加速，这种工况大大提高了对轴承设计的额外要求。为了满足振动应用调心滚子轴承可承受比相应的标准轴承高得多的加速，以及施加在轴承上大小、方向、偏心等多变的负荷。我们基于调心滚子轴承223系列的尺寸和性能相同的基础进行研发，生产出CCJA和CAFA型振动机械用调心滚子轴承。

In the application of bearings for the vibrating machines, since the vibrating screen or exciter cause the acceleration of the roller and cages in bearings, extra requirements for designing the bearings will be proposed. In order to meet the high requirements for high accelerating speed and various loads on the dimension, direction and eccentricity, WKB researched and developed the spherical roller 223 series based on the same dimension and functions, and produced CCJA and CAFA type spherical roller bearings especially applied in vibrating machines.



CCJA设计
CCJA Design
两个表面硬化的窗口式冲压保持架，内圈无挡圈和带有一个外引导环
Two surface hardened window type press cage, without collar on inner ring and with an outer guide ring.



CAFA设计
CAFA Design
由外圈滚道引导的叉型机削铜制保持架，内圈带有挡边。
A machined brass cage guided by outer ring raceway and with a collar on the inner ring.

以上两种设计均可提供1:12锥孔和圆柱孔轴承，为方便润滑，所有轴承均带有油槽油孔。
The above design both provide 1:12 tapered bore or cylindrical bore. For convenience of lubrication, all the bearings are with oil slot and oil bore.

一般资料和数据
General reference and data

尺寸 Dimension	调心滚子轴承的外形尺寸符合2011年的ISO 15标准。 The outer dimension meets ISO 15 standard issued in year 2011.
公差 Tolerance	用于振动应用的调心滚子轴承尺寸公差为特殊公差，如下表。形位公差为P5。 The tolerance for vibrating machine bearings is special one; please refer to the following table. The geometric tolerance is P5.

振动筛机械用调心滚子轴承尺寸公差表
Tolerance table for spherical roller bearings applied on vibrating machines

内圈 Inner ring				外圈 Outer ring			
公称内径 Nominal inner diameter mm		偏差Deviation Δ dmp μ m		公称内径 Nominal inner diameter mm		偏差Deviation Δ dmp μ m	
超过 Over	到 To	最大 max	最小 min	超过 Over	到 To	最大 max	最小 min
30	50	0	-7	80	150	-5	-13
50	80	0	-9	150	180	-5	-18
80	120	0	-12	180	315	-10	-23
120	180	0	-15	315	400	-13	-28
180	250	0	-18	400	500	-13	-30
250	315	0	-21	500	630	-15	-35
315	400	0	-23	630	800	-18	-40

内部游隙 Inner clearance	用于振动应用的调心滚子轴承标准生产带有C4游隙 C4 clearance is applied to standard spherical roller bearing for vibrating machines.
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带圆柱孔的轴承径向游隙范围
Radial clearance scope for bearing with cylindrical bore

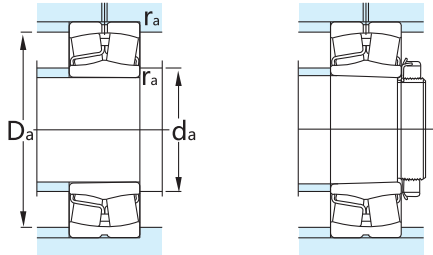
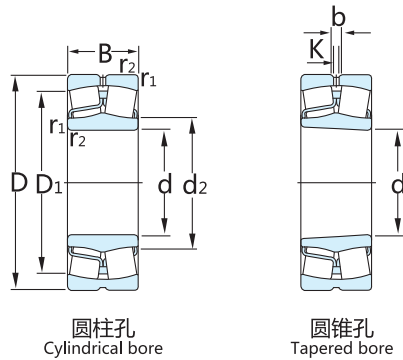
内径d(mm) Inner ring		径向游隙cr(μ m) Radial clearance	
大于 Over	包括 Include	最小 min	最大 max
80	100	135	180
100	120	160	210
120	140	190	240
140	160	220	280
160	180	240	310
180	200	260	340
200	225	290	380
225	250	320	420
250	280	350	460
280	315	370	500

带圆锥孔的轴承径向游隙范围
Radial clearance scope for bearing with tapered bore

内径d(mm) Inner ring		径向游隙cr(μ m) Radial clearance	
大于 Over	包括 Include	最小 min	最大 max
80	100	140	180
100	120	170	220
120	140	200	260
140	160	230	300
160	180	260	340
180	200	290	370
200	225	320	410
225	250	350	450
250	280	390	490
280	315	430	540

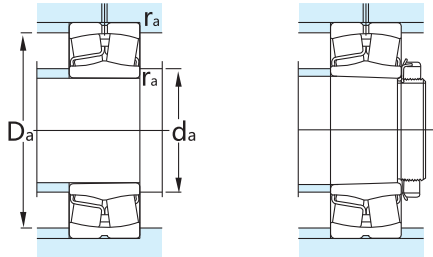
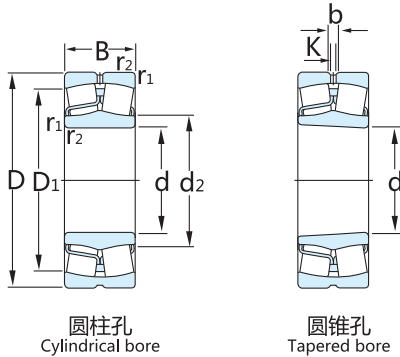
我公司现在生产适用于振动筛的调心滚子轴承
Spherical roller bearings applied in vibrating screen produced by ICAN

序号 No.	规格 Specification			序号 No.	规格 Specification		
1	22312CCJA/W33/VE010	22312CCJAK/W33/VE010		21	22324CCJA/W33/VE010	22324CCJAK/W33/VE010	22324MB/W33
2	22312MA/W33	22312MAK/W33		22	22324MA/W33	22324MAK/W33	22324MBK/W33
3	22313CCJA/W33/VE010	22313CCJAK/W33/VE010		23	22326CCJA/W33/VE010	22326CCJAK/W33/VE010	22326MB/W33
4	22313MA/W33	22313MAK/W33		24	22326MA/W33	22326MAK/W33	22326MBK/W33
5	22314CCJA/W33/VE010	22314CCJAK/W33/VE010		25	22328CCJA/W33/VE010	22328CCJAK/W33/VE010	22328MB/W33
6	22314MA/W33	22314MAK/W33		26	22328MA/W33	22328MAK/W33	22328MBK/W33
7	22315CCJA/W33/VE010	22315CCJAK/W33/VE010		27	22330CCJA/W33/VE010	22330CCJAK/W33/VE010	22330MB/W33
8	22315MA/W33	22315MAK/W33		28	22330MA/W33	22330MAK/W33	22330MBK/W33
9	22316CCJA/W33/VE010	22316CCJAK/W33/VE010		29	22332CCJA/W33/VE010	22332CCJAK/W33/VE010	22332MB/W33
10	22316MA/W33	22316MAK/W33		30	22332MA/W33	22332MAK/W33	22332MBK/W33
11	22317CCJA/W33/VE010	22317CCJAK/W33/VE010		31	22334CCJA/W33/VE010	22334CCJAK/W33/VE010	22334MB/W33
12	22317MA/W33	22317MAK/W33		32	22334MA/W33	22334MAK/W33	22334MBK/W33
13	22318CCJA/W33/VE010	22318CCJAK/W33/VE010	22318MB/W33	33	22336CCJA/W33/VE010	22336CCJAK/W33/VE010	22336MB/W33
14	22318MA/W33	22318MAK/W33	22318MBK/W33	34	22336MA/W33	22336MAK/W33	22336MBK/W33
15	22319CCJA/W33/VE010	22319CCJAK/W33/VE010	22319MB/W33	35	22338CCJA/W33/VE010	22338CCJAK/W33/VE010	22338MB/W33
16	22319MA/W33	22319MAK/W33	22319MBK/W33	36	22338MA/W33	22338MAK/W33	22338MBK/W33
17	22320CCJA/W33/VE010	22320CCJAK/W33/VE010	22320MB/W33	37	22340CCJA/W33/VE010	22340CCJAK/W33/VE010	22340MB/W33
18	22320MA/W33	22320MAK/W33	22320MBK/W33	38	22340MA/W33	22340MAK/W33	22340MBK/W33
19	22322CCJA/W33/VE010	22322CCJAK/W33/VE010	22322MB/W33	39	22344CCJA/W33/VE010	22344CCJAK/W33/VE010	22344MB/W33
20	22322MA/W33	22322MAK/W33	22322MBK/W33	40	22344MA/W33	22344MAK/W33	22344MBK/W33



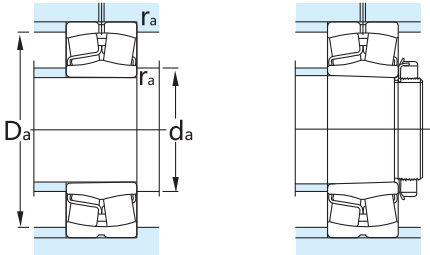
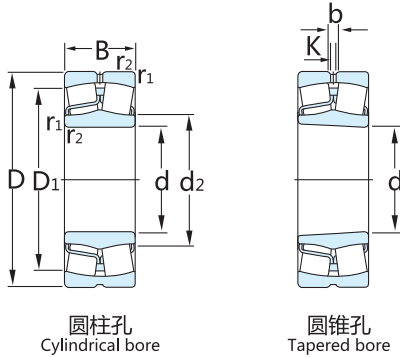
基本尺寸 Basic Size			基本额定负荷 Basic load rating		疲劳负荷极限 Fatigue load limit	额定转速 Rated Speed		型号Designation(Design)	
d	D	B	动态 dynamic C	静态 static C ₀	P ₀	参考转速 Reference Speed	极限转速 Limit Speed	圆柱孔Cylindrical bore	圆锥孔Tapered bore
mm			kN		kN	r/min		-	-
75	115	40	181	232	28.5	3800	5300	24015CC/W33	24015CCK30/W33
	130	31	217	240	26.5	4800	6300	22215E	22215EK
	160	37	291	325	34.5	4000	5600	21315E	21315EK
	160	55	462	475	48	3200	4300	22315E	22315EK
80	140	33	243	270	29	4300	6000	22216E	22216EK
	170	39	331	375	39	3800	5300	21316E	21316EK
	170	58	516	530	54	3000	4000	22316E	22316EK
85	150	36	291	325	34.5	4000	5600	22217E	22217EK
	180	41	331	375	39	3800	5300	21317E	21317EK
	180	60	577	620	61	2800	3800	22317E	22317EK
90	160	40	331	375	39	3800	5300	22218E	22218EK
	160	52.4	372	440	48	2800	3800	23218CC/W33	23218CCK/W33
	190	43	393	450	46.5	3600	4800	21318E	21318EK
	190	64	637	695	67	2600	3600	22318E	22318EK
95	170	43	393	450	45.5	3600	4800	22219E	22219EK
	200	45	433	490	49	3400	4500	21319E	21319EK
	200	67	699	765	73.5	2600	3400	22319E	22319EK
100	150	50	296	415	45.5	2800	4000	24020CC/W33	24020CCK30/W33
	165	52	385	490	53	3000	4000	23120CC/W33	23120CCK/W33
	165	65	468	640	68	2400	3200	24120CC/W33	24120CCK30/W33
	180	46	433	490	49	3400	4500	22220E	22220EK
	180	60.3	498	600	63	2400	3400	23220CC/W33	23220CCK/W33
	215	47	433	490	49	3400	4500	21320E	21320EK
	215	73	847	950	88	2400	3000	22320E	22320EK
110	170	45	326	440	46.5	3400	4300	23022CC/W33	23022CCK/W33
	170	60	437	620	67	2400	3600	24022CC/W33	24022CCK30/W33
	180	56	450	585	61	2800	3600	23122CC/W33	23122CCK/W33
	180	69	539	750	78	2200	3000	24122CC/W33	24122CCK30/W33
	200	53	572	640	63	3000	4000	22222E	22222EK
	200	69.8	626	765	76.5	2200	3200	23222CC/W33	23222CCK/W33
	240	80	989	1120	100	2000	2800	22322E	22322EK

尺寸 Dimensions					挡肩及倒角尺寸 Abutment and chamfer dimensions			计算系数 Calculation coefficient				质量 Mass
d ₂ ~	D ₁ ~	b	k	r _{1,2} min	d _a min	D _a max	r _a max	e	Y ₁	Y ₂	Y ₀	kg
mm					mm			-				
84.2	100	5.5	3	1.1	81	109	1	0.28	2.4	3.6	2.5	1.55
87.8	115	6	3	1.5	84	121	1.5	0.22	3	4.6	2.8	1.7
101	133	6	3	2.1	87	148	2	0.22	3	4.6	2.8	3.75
92.8	135	8.3	4.5	2.1	87	148	2	0.35	1.9	2.9	1.8	5.55
94.7	124	6	3	2	91	129	2	0.22	3	4.6	2.8	2.1
106	141	6	3	2.1	92	158	2	0.24	2.8	4.2	2.8	4.45
98.3	143	8.3	4.5	2.1	92	158	2	0.35	1.9	2.9	1.8	6.6
101	133	6	3	2	96	139	2	0.22	3	4.6	2.8	2.7
106	141	6	3	3	99	166	2.5	0.24	2.8	4.2	2.8	5.2
108	154	8.3	4.5	3	99	166	2.5	0.33	2	3	2	7.65
106	141	6	3	2	101	149	2	0.24	2.8	4.2	2.8	3.4
106	137	6	3	2	101	149	2	0.31	2.2	3.3	2.2	4.65
112	150	8.3	4.5	3	104	176	2.5	0.24	2.8	4.2	2.8	6.1
113	161	11.1	6	3	104	176	2.5	0.33	2	3	2	9.05
112	150	8.3	4.5	2.1	107	158	2	0.24	2.8	4.2	2.8	4.15
118	159	8.3	4.5	3	109	186	2.5	0.24	2.8	4.2	2.8	7.05
118	168	11.1	6	3	109	186	2.5	0.33	2	3	2	10.5
111	132	6	3	1.5	107	143	1.5	0.28	2.4	3.6	2.5	3.15
115	144	6	3	2	111	154	2	0.3	2.3	3.4	2.2	4.55
113	141	4.4	2	2	111	154	2	0.37	1.8	2.7	1.8	5.65
118	159	8.3	4.5	2.1	112	168	2	0.24	2.8	4.2	2.8	4.9
117	153	8.3	4.5	2.1	112	168	2	0.33	2	3	2	6.85
118	159	8.3	4.5	3	114	201	2.5	0.24	2.8	4.2	2.8	8.6
130	184	11.1	6	3	114	201	2.5	0.33	2	3	2	13.5
125	151	6	3	2	119	161	2	0.23	2.9	4.4	2.8	3.8
122	149	6	3	2	119	161	2	0.33	2	3	2	5
126	157	8.3	4.5	2	121	169	2	0.3	2.3	3.4	2.2	5.75
123	153	6	3	2	121	169	2	0.37	1.8	2.7	1.8	7.1
130	178	8.3	4.5	2.1	122	188	2	0.25	2.7	4	2.5	7
130	169	8.3	4.5	2.1	122	188	2	0.33	2	3	2	9.85
143	204	13.9	7.5	3	124	226	2.5	0.33	2	3	2	18.5



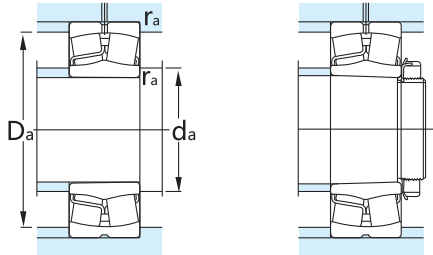
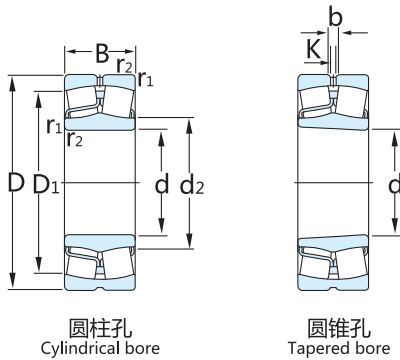
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mm			kN		kN	r/min		-		
120	180	46	366	500	52	3200	4000	23024CC/W33	23024CCK/W33	
	180	60	456	670	68	2400	3400	24024CC/W33	24024CCK30/W33	
	200	62	534	695	71	2600	3400	23124CC/W33	23124CCK/W33	
	200	80	679	950	95	1900	2600	24124CC/W33	24124MB/W33	24124CCK30/W33
	215	58	652	765	73.5	2800	3800	22224E	22224EK	
	215	76	732	930	93	2000	2800	23224CC/W33	23224MB/W33	23224CCK/W33
	260	86	1019	1120	100	2000	2600	22324CC/W33	22324MB/W33	22324CCK/W33
130	200	52	452	610	61	2800	3600	23026CC/W33	23026CCK/W33	
	200	69	569	815	81.5	2000	3000	24026CC/W33	24026CCK30/W33	
	210	64	586	780	78	2400	3200	23126CC/W33	23126MB/W33	23126CCK/W33
	210	80	699	1000	100	1700	2400	24126CC/W33	24126MB/W33	24126CCK30/W33
	230	64	758	930	88	2600	3600	22226E	22226MB/W33	22226EK
	230	80	826	1060	104	1900	2600	23226CC/W33	23226MB/W33	23226CCK/W33
	280	93	1176	1320	114	1800	2400	22326CC/W33	22326MB/W33	22326CCK/W33
140	210	53	485	680	68	2600	3400	23028CC/W33	23028MB/W33	23028CCK/W33
	210	69	600	900	88	2000	2800	24028CC/W33	24028MB/W33	24028CCK30/W33
	225	68	659	900	88	2200	2800	23128CC/W33	23128MB/W33	23128CCK/W33
	225	85	796	1160	112	1600	2200	24128CC/W33	24128MB/W33	24128CCK30/W33
	250	68	743	900	86.5	2400	3200	22228CC/W33	22228MB/W33	22228CCK/W33
	250	88	962	1250	120	1700	2400	23228CC/W33	23228MB/W33	23228CCK/W33
	300	102	1357	1560	132	1700	2200	22328CC/W33	22328MB/W33	22328CCK/W33
150	225	56	531	750	73.5	2400	3200	23030CC/W33	23030MB/W33	23030CCK/W33
	225	75	680	1040	100	1800	2600	24030CC/W33	24030MB/W33	24030CCK30/W33
	250	80	883	1200	114	2000	2600	23130CC/W33	23130MB/W33	23130CCK/W33
	250	100	1054	1530	146	1400	2000	24130CC/W33	24130MB/W33	24130CCK30/W33
	270	73	898	1080	102	2200	3000	22230CC/W33	22230MB/W33	22230CCK/W33
	270	96	1129	1460	137	1600	2200	23230CC/W33	23230MB/W33	23230CCK/W33
	320	108	1539	1760	146	1600	2000	22330CC/W33	22330MB/W33	22330CCK/W33

尺寸 Dimensions					挡肩及倒角尺寸 Abutment and chamfer dimensions			计算系数 Calculation coefficient				质量 Mass
d ₂ ~	D ₁ ~	b	k	r _{1,2} min	d _a min	D _a max	r _a max	e	Y ₁	Y ₂	Y ₀	kg
mm					mm			-				
135	163	6	3	2	129	171	2	0.22	3	4.6	2.8	4.2
132	159	6	3	2	129	171	2	0.3	2.3	3.4	2.2	5.45
139	174	8.3	4.5	2	131	189	2	0.28	2.4	3.6	2.5	8
135	168	6	3	2	131	189	2	0.37	1.8	2.7	1.8	10.5
141	189	11.1	6	2.1	132	203	2	0.26	2.6	3.9	2.5	8.7
141	182	8.3	4.5	2.1	132	203	2	0.35	1.9	2.9	1.8	12
152	216	13.9	7.5	3	134	246	2.5	0.35	1.9	2.9	1.8	23
148	180	8.3	4.5	2	139	191	2	0.23	2.9	4.4	2.8	6
145	175	6	3	2	139	191	2	0.31	2.2	3.3	2.2	8.05
148	184	8.3	4.5	2	141	199	2	0.28	2.4	3.6	2.5	8.8
146	180	6	3	2	141	199	2	0.35	1.9	2.9	1.8	11
152	201	11.1	6	3	144	216	2.5	0.27	2.5	3.7	2.5	11
151	196	8.3	4.5	3	144	216	2.5	0.33	2	3	2	14.5
164	233	16.7	9	4	147	263	3	0.35	1.9	2.9	1.8	29
158	190	8.3	4.5	2	149	201	2	0.22	3	4.6	2.8	6.55
155	185	6	3	2	149	201	2	0.3	2.3	3.4	2.2	8.55
159	197	8.3	4.5	2.1	152	213	2	0.28	2.4	3.6	2.5	10.5
156	193	8.3	4.5	2.1	152	213	2	0.35	1.9	2.9	1.8	13.5
166	216	11.1	6	3	154	236	2.5	0.26	2.6	3.9	2.5	14
165	212	11.1	6	3	154	236	2.5	0.33	2	3	2	19
175	247	16.7	9	4	157	283	3	0.35	1.9	2.9	1.8	36.5
169	203	8.3	4.5	2.1	161	214	2	0.22	3	4.6	2.8	7.95
165	197	6	3	2.1	161	214	2	0.3	2.3	3.4	2.2	10.5
172	216	11.1	6	2.1	162	238	2	0.3	2.3	3.4	2.2	16
169	211	8.3	4.5	2.1	162	238	2	0.37	1.8	2.7	1.8	20
178	234	13.9	7.5	3	164	256	2.5	0.26	2.6	3.9	2.5	18
175	228	11.1	6	3	164	256	2.5	0.35	1.9	2.9	1.8	24.5
188	266	16.7	9	4	167	303	3	0.35	1.9	2.9	1.8	43.5



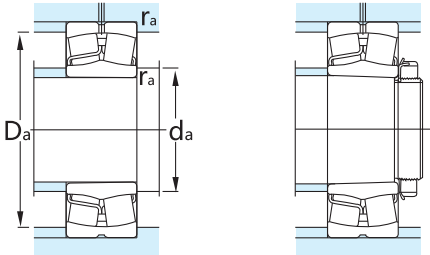
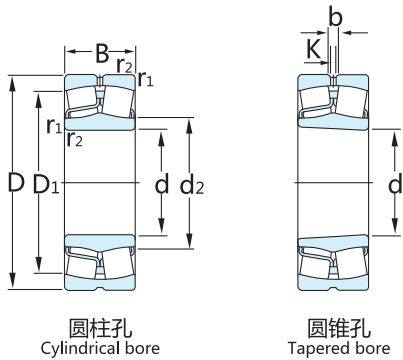
基本尺寸 Basic Size			基本额定负荷 Basic load rating		疲劳负荷极限 Fatigue load limit	额定转速 Rated Speed		型号Designation(Design) 圆柱孔Cylindrical bore圆锥孔Tapered bore
d	D	B	动态 dynamic C	静态 static C ₀	P ₀	参考转速 Reference Speed	极限转速 Limit Speed	
mm			kN		kN	r/min		
160	240	60	614	880	83	2400	3000	23032CC/W33 23032MB/W33 23032CCK/W33
	240	80	783	1200	114	1700	2400	24032CC/W33 24032MB/W33 24032CCK30/W33
	270	86	1029	1370	129	1900	2400	23132CC/W33 23132MB/W33 23132CCK/W33
	270	109	1227	1760	163	1300	1900	24132CC/W33 24132MB/W33 24132CCK30/W33
	290	80	1043	1290	118	2000	2800	22232CC/W33 22232MB/W33 22232CCK/W33
	290	104	1281	1660	153	1500	2200	23232CC/W33 23232MB/W33 23232CCK/W33
	340	114	1680	1960	160	1500	1900	22332CC/W33 22332MB/W33 22332CCK/W33
170	260	67	745	1060	100	2200	2800	23034CC/W33 23034MB/W33 23034CCK/W33
	260	90	963	1460	137	1600	2400	24034CC/W33 24034MB/W33 24034CCK30/W33
	280	88	1086	1500	137	1800	2400	23134CC/W33 23134MB/W33 23134CCK/W33
	280	109	1270	1860	170	1200	1800	24134CC/W33 24134MB/W33 24134CCK30/W33
	310	86	1183	1460	132	1900	2600	22234CC/W33 22234MB/W33 22234CCK/W33
	310	110	1472	1930	173	1400	2000	23234CC/W33 23234MB/W33 23234CCK/W33
	360	120	1863	2160	176	1400	1800	22334CC/W33 22334MB/W33 22334CCK/W33
180	250	52	519	830	76.5	2600	2800	23936CC/W33 23936CCK/W33
	250	52	445	840	57	1850	3200	23936MB/W33 23936MBK/W33
	280	74	883	1250	114	2000	2600	23036CC/W33 23036MB/W33 23036CCK/W33
	280	100	1134	1730	156	1500	2200	24036CC/W33 24036MB/W33 24036CCK30/W33
	300	96	1263	1760	160	1700	2200	23136CC/W33 23136MB/W33 23136CCK/W33
	300	118	1449	2160	196	1100	1600	24136CC/W33 24136MB/W33 24136CCK30/W33
	320	86	1237	1560	140	1800	2600	22236CC/W33 22236MB/W33 22236CCK/W33
	320	112	1557	2120	186	1300	1900	23236CC/W33 23236MB/W33 23236CCK/W33
	380	126	2077	2450	193	1300	1700	22336CC/W33 22336MB/W33 22336CCK/W33
190	260	52	499	800	76.5	2400	2600	23938CC/W33 23938CCK/W33
	260	52	470	890	62	1750	3150	23938MB/W33 23938MBK/W33
	290	75	916	1340	122	1900	2400	23038CC/W33 23038MB/W33 23038CCK/W33
	290	100	1164	1800	163	1400	2000	24038CC/W33 24038MB/W33 24038CCK30/W33
	320	104	1456	2080	183	1500	2000	23138CC/W33 23138MB/W33 23138CCK/W33
	320	128	1652	2500	212	1100	1500	24138CC/W33 24138MB/W33 24138CCK30/W33
	340	92	1342	1700	150	1700	2400	22238CC/W33 22238MB/W33 22238CCK/W33
	340	120	1759	2400	208	1300	1800	23238CC/W33 23238MB/W33 23238CCK/W33
	400	132	2232	2650	208	1200	1600	22338CC/W33 22338MB/W33 22338CCK/W33

尺寸 Dimensions					挡肩及倒角尺寸 Abutment and chamfer dimensions			计算系数 Calculation coefficient				质量 Mass
d ₂ ~	D ₁ ~	b	k	r _{1,2} min	d _a min	D _a max	r _a max	e	Y ₁	Y ₂	Y ₀	kg
180	217	11.1	6	2.1	171	229	2	0.22	3	4.6	2.8	9.7
176	211	8.3	4.5	2.1	171	229	2	0.3	2.3	3.4	2.2	13
184	234	13.9	7.5	2.1	172	258	2	0.3	2.3	3.4	2.2	20.5
181	228	8.3	4.5	2.1	172	258	2	0.4	1.7	2.5	1.6	25
191	250	13.9	7.5	3	174	276	2.5	0.26	2.6	3.9	2.5	22.5
188	244	13.9	7.5	3	174	276	2.5	0.35	1.9	2.9	1.8	31
200	282	16.7	9	4	177	323	3	0.35	1.9	2.9	1.8	52
191	232	11.1	6	2.1	181	249	2	0.23	2.9	4.4	2.8	13
188	226	8.3	4.5	2.1	181	249	2	0.33	2	3	2	17.5
195	244	13.9	7.5	2.1	182	268	2	0.3	2.3	3.4	2.2	22
190	237	8.3	4.5	2.1	182	268	2	0.37	1.8	2.7	1.8	27.5
203	267	16.7	9	4	187	293	3	0.27	2.5	3.7	2.5	28.5
200	261	13.9	7.5	4	187	293	3	0.35	1.9	2.9	1.8	37.5
213	300	16.7	9	4	187	343	3	0.33	2	3	2	61
199	231	6	3	2	189	241	2	0.18	3.8	5.6	3.6	7.9
	230.9	9.5	4.8	2	188.8	241.2	2	0.2	3.42	5.09	3.34	8
204	249	13.9	7.5	2.1	191	269	2	0.24	2.8	4.2	2.8	17
201	243	8.3	4.5	2.1	191	269	2	0.33	2	3	2	23
207	259	13.9	7.5	3	194	286	2.5	0.3	2.3	3.4	2.2	28
203	253	11.1	6	3	194	286	2.5	0.37	1.8	2.7	1.8	34.5
213	278	16.7	9	4	197	303	3	0.26	2.6	3.9	2.5	29.5
211	271	13.9	7.5	4	197	303	3	0.35	1.9	2.9	1.8	39.5
224	317	22.3	12	4	197	363	3	0.35	1.9	2.9	1.8	71.5
209	240	6	3	2	199	251	2	0.16	4.2	6.3	4	8.3
	240.2	9.5	4.8	2	198.8	251.2	2	0.18	3.66	5.46	3.58	8.4
216	261	13.9	7.5	2.1	201	279	2	0.23	2.9	4.4	2.8	18
210	253	8.3	4.5	2.1	201	279	2	0.31	2.2	3.3	2.2	24.5
220	275	13.9	7.5	3	204	306	2.5	0.31	2.2	3.3	2.2	35
215	268	11.1	6	3	204	306	2.5	0.4	1.7	2.5	1.6	43
225	294	16.7	9	4	207	323	3	0.26	2.6	3.9	2.5	36.5
222	287	16.7	9	4	207	323	3	0.35	1.9	2.9	1.8	48
236	333	22.3	12	5	210	380	4	0.35	1.9	2.9	1.8	82.5



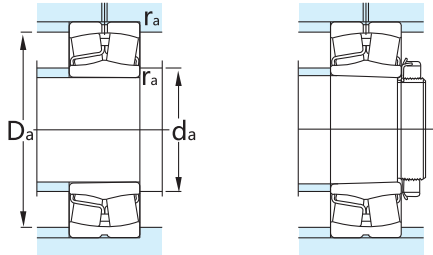
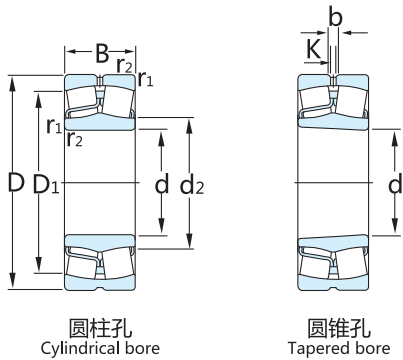
基本尺寸 Basic Size			基本额定负荷 Basic load rating		疲劳负荷极限 Fatigue load limit	额定转速 Rated Speed		型号Designation(Design)	
d	D	B	动态 dynamic C	静态 static Co	P0	参考转速 Reference Speed	极限转速 Limit Speed	圆柱孔Cylindrical bore	圆锥孔Tapered bore
mm			kN		kN	r/min		-	
200	280	60	651	1040	93	2200	2400	23940CC/W33	23940CCK/W33
	280	60	550	1070	71	1650	2800	23940MB/W33	23940MBK/W33
	310	82	1058	1530	137	1800	2200	23040CC/W33	23040CCK/W33
	310	109	1353	2120	186	1300	1900	24040CC/W33	24040CCK30/W33
	340	112	1665	2360	204	1500	1900	23140CC/W33	23140CCK/W33
	340	140	1865	2800	232	1000	1400	24140CC/W33	24140CCK30/W33
	360	98	1526	1930	166	1600	2200	22240CC/W33	22240CCK/W33
	360	128	1947	2700	228	1200	1700	23240CC/W33	23240CCK/W33
	420	138	2439	2900	224	1200	1500	22340CC/W33	22340CCK/W33
220	300	60	661	1080	93	2000	2200	23944CC/W33	23944CCK/W33
	300	60	610	1240	72	1460	2600	23944MB/W33	23944MBK/W33
	340	90	1261	1860	163	1600	2000	23044CC/W33	23044CCK/W33
	340	118	1628	2600	212	1200	1700	24044CC/W33	24044CCK30/W33
	370	120	1888	2750	232	1300	1700	23144CC/W33	23144CCK/W33
	370	150	2197	3350	285	850	1200	24144CC/W33	24144CCK30/W33
	400	108	1835	2360	196	1500	2000	22244CC/W33	22244CCK/W33
	400	144	2485	3450	285	1100	1500	23244CC/W33	23244CCK/W33
	460	145	2839	3450	260	1000	1400	22344CC/W33	22344CCK/W33
240	320	60	685	1160	98	1900	2000	23948CC/W33	23948CCK/W33
	320	60	640	1370	93	1310	2440	23948MB/W33	23948MBK/W33
	360	92	1340	2080	176	1500	1900	23048CC/W33	23048CCK/W33
	360	118	1663	2700	228	1100	1600	24048CC/W33	24048CCK30/W33
	400	128	2187	3200	255	1200	1600	23148CC/W33	23148CCK/W33
	400	160	2489	3900	320	750	1100	24148CC/W33	24148CCK30/W33
	440	120	2258	3000	245	1300	1800	22248CC/W33	22248CCK/W33
	440	160	3042	4300	345	950	1300	23248CC/W33	23248CCK/W33
	500	155	3229	4000	290	950	1300	22348CC/W33	22348CCK/W33
260	360	75	1055	1800	156	1700	1900	23952CC/W33	23952CCK/W33
	360	75	940	1940	108	1190	2100	23952MB/W33	23952MBK/W33
	400	104	1675	2550	212	1300	1700	23052CC/W33	23052CCK/W33
	400	140	2135	3450	285	1000	1400	24052CC/W33	24052CCK30/W33
	440	144	2664	3900	290	1100	1400	23152CC/W33	23152CCK/W33
	440	180	3086	4800	380	670	950	24152CC/W33	24152CCK30/W33
	480	130	2722	3550	285	1200	1600	22252CC/W33	22252CCK/W33
	480	174	3395	4750	360	850	1200	23252CC/W33	23252CCK/W33
	540	165	3680	4550	325	850	1100	22352CC/W33	22352CCK/W33

尺寸 Dimensions					挡肩及倒角尺寸 Abutment and chamfer dimensions			计算系数 Calculation coefficient				质量 Mass
d2 ~	D1 ~	b	k	r1,2 min	da min	Da max	ra max	e	Y1	Y2	Y0	kg
mm					mm			-				
222	258	8.3	4.5	2.1	211	269	2	0.19	3.6	5.3	3.6	11.5
	256.9	12.2	6.3	2.1	210.2	269.8	2.1	0.2	3.42	5.09	3.34	11.8
228	278	13.9	7.5	2.1	211	299	2	0.24	2.8	4.2	2.8	23.5
223	268	11.1	6	2.1	211	299	2	0.33	2	3	2	31
231	293	16.7	9	3	214	326	2.5	0.31	2.2	3.3	2.2	43
226	284	11.1	6	3	214	326	2.5	0.4	1.7	2.5	1.6	53.5
238	313	16.7	9	4	217	343	3	0.26	2.6	3.9	2.5	43.5
235	304	16.7	9	4	217	343	3	0.35	1.9	2.9	1.8	58
249	351	22.3	12	5	220	400	4	0.33	2	3	2	95
241	278	8.3	4.5	2.1	231	289	2	0.16	4.2	6.3	4	12.5
	277.4	12.2	6.3	2.1	230.2	289.8	2.1	0.18	3.76	5.59	3.67	12.3
250	306	13.9	7.5	3	233	327	2.5	0.24	2.8	4.2	2.8	30.5
244	295	11.1	6	3	233	327	2.5	0.33	2	3	2	40
255	320	16.7	9	4	237	353	3	0.3	2.3	3.4	2.2	53.5
248	310	11.1	6	4	237	353	3	0.4	1.7	2.5	1.6	67
263	346	16.7	9	4	237	383	3	0.27	2.5	3.7	2.5	60.5
259	338	16.7	9	4	237	383	3	0.35	1.9	2.9	1.8	81.5
279	389	22.3	12	5	240	440	4	0.31	2.2	3.3	2.2	120
261	298	8.3	4.5	2.1	251	309	2	0.15	4.5	6.7	4.5	13.5
	297.8	12.2	6.3	2.1	250.2	309.8	2.1	0.17	4.05	6.04	3.96	13.9
271	326	13.9	7.5	3	253	347	2.5	0.23	2.9	4.4	2.8	33.5
265	316	11.1	6	3	253	347	2.5	0.3	2.3	3.4	2.2	43
277	348	16.7	9	4	257	383	3	0.3	2.3	3.4	2.2	66.5
271	336	11.1	6	4	257	383	3	0.4	1.7	2.5	1.6	83
290	383	22.3	12	4	257	423	3	0.27	2.5	3.7	2.5	83
286	374	22.3	12	4	257	423	3	0.35	1.9	2.9	1.8	110
303	423	22.3	12	5	260	480	4	0.31	2.2	3.3	2.2	155
287	331	8.3	4.5	2.1	271	349	2	0.18	3.8	5.6	3.6	23.5
	330.5	15	8	2.1	270.2	349.8	2.1	0.19	3.54	5.27	3.46	24.1
295	360	16.7	9	4	275	385	3	0.23	2.9	4.4	2.8	48.5
289	347	11.1	6	4	275	385	3	0.33	2	3	2	65.5
301	380	16.7	9	4	277	423	3	0.31	2.2	3.3	2.2	90.5
293	368	13.9	7.5	4	277	423	3	0.4	1.7	2.5	1.6	110
311	421	22.3	12	5	280	460	4	0.27	2.5	3.7	2.5	110
312	408	22.3	12	5	280	460	4	0.35	1.9	2.9	1.8	140
328	458	22.3	12	6	286	514	5	0.31	2.2	3.3	2.2	190



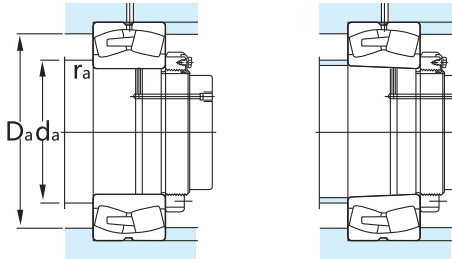
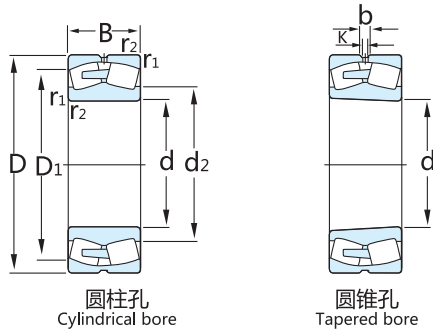
基本尺寸 Basic Size			基本额定负荷 Basic load rating		疲劳负荷极限 Fatigue load limit	额定转速 Rated Speed		型号Designation(Design)		
d	D	B	动态 dynamic C	静态 static C ₀	P ₀	参考转速 Reference Speed	极限转速 Limit Speed	圆柱孔Cylindrical bore		
mm			kN		kN	r/min		圆锥孔Tapered bore		
280	380	75	1016	1760	143	1000	1700	23956CC/W33	23956CCK/W33	
	380	75	970	2040	129	1100	2000	23956MB/W33	23956MBK/W33	
	420	106	1797	2850	224	1300	1600	23056CC/W33	23056MB/W33	23056CCK/W33
	420	140	2248	3800	285	950	1400	24056CC/W33	24056MB/W33	24056CCK30/W33
	460	146	2784	4250	335	1000	1300	23156CC/W33	23156MB/W33	23156CCK/W33
	460	180	3183	5100	415	630	900	24156CC/W33	24156MB/W33	24156CCK30/W33
	500	130	2795	3750	300	1100	1500	22256CC/W33	22256MB/W33	22256CCK/W33
	500	176	3425	4900	365	800	1100	23256CC/W33	23256MB/W33	23256CCK/W33
	580	175	4158	5200	365	800	1100	22356CC/W33	22356MB/W33	22356CCK/W33
300	380	60	656	1600	137	1400	1700	23860CA/MA	23860CAK/MA	
	420	90	1413	2500	200	1400	1600	23960CC/W33	23960CCK/W33	
	420	90	1270	2650	165	1000	1780	23960MB/W33	23960MBK/W33	
	460	118	2219	3450	265	1200	1500	23060CC/W33	23060MB/W33	23060CCK/W33
	460	160	2821	4750	355	850	1200	24060CC/W33	24060MB/W33	24060CCK30/W33
	500	160	3368	5100	380	950	1200	23160CC/W33	23160MB/W33	23160CCK/W33
	500	200	3876	6300	465	560	800	24160CC/W33	24160MB/W33	24160CCK30/W33
	540	140	3239	4250	325	1000	1400	22260CC/W33	22260MB/W33	22260CCK/W33
	540	192	4052	5850	425	750	1000	23260CC/W33	23260MB/W33	23260CCK/W33
320	440	90	1480	2700	212	1400	1500	23964CC/W33	23964CCK/W33	
	440	90	1310	2750	201	930	1700	23964MB/W33	23964MBK/W33	
	480	121	2348	3800	285	1100	1400	23064CC/W33	23064MB/W33	23064CCK/W33
	480	160	2969	5100	400	800	1200	24064CC/W33	24064MB/W33	24064CCK30/W33
	540	176	3923	6000	440	850	1100	23164CC/W33	23164MB/W33	23164CCK/W33
	540	218	4395	7100	510	500	700	24164CC/W33	24164MB/W33	24164CCK30/W33
	580	150	3708	4900	375	950	1300	22264CC/W33	22264MB/W33	22264CCK/W33
	580	208	4607	6700	475	700	950	23264CC/W33	23264MB/W33	23264CCK/W33
340	460	90	1490	2800	216	1300	1400	23968CC/W33	23968CCK/W33	
	460	90	1370	3000	198	860	1610	23968MB/W33	23968MBK/W33	
	520	133	2812	4550	335	1000	1300	23068CC/W33	23068MB/W33	23068CCK/W33
	520	180	3621	6200	475	750	1100	24068CC/W33	24068MB/W33	24068CCK30/W33
	580	190	4450	6800	480	800	1000	23168CC/W33	23168MB/W33	23168CCK/W33
	580	243	5487	8650	630	430	630	24168ECCJ/W33	24168MB/W33	24168ECCJ30J/W33
	620	224	5362	7800	550	560	800	23268CA/W33	23268MB/W33	23268CAK/W33

尺寸 Dimensions					挡肩及倒角尺寸 Abutment and chamfer dimensions			计算系数 Calculation coefficient				质量 Mass
d ₂	D ₁	b	k	r _{1,2} min	d _a min	D _a max	r _a max	e	Y ₁	Y ₂	Y ₀	kg
mm					mm			-				
308	352	11.1	6	2.1	291	369	2	0.16	4.2	6.3	4	25
	350	15	8	2.1	290.2	369.8	2.1	0.18	3.76	5.59	3.67	25.5
315	380	16.7	9	4	295	405	3	0.23	2.9	4.4	2.8	52.5
309	368	11.1	6	4	295	405	3	0.31	2.2	3.3	2.2	69.5
321	401	16.7	9	5	300	440	4	0.3	2.3	3.4	2.2	97
314	390	13.9	7.5	5	300	440	4	0.4	1.7	2.5	1.6	120
333	441	22.3	12	5	300	480	4	0.26	2.6	3.9	2.5	115
332	429	22.3	12	5	300	480	4	0.35	1.9	2.9	1.8	150
354	492	22.3	12	6	306	554	5	0.3	2.3	3.4	2.2	235
329	358			2.1	311	369	2	0.13	5.2	7.7	5	16.5
333	385	11.1	6	3	313	407	2.5	0.19	3.6	5.3	3.6	39.5
	384.6	17.7	9.5	3	312.4	407.6	2.5	0.2	3.42	5.09	3.34	40.6
340	414	16.7	9	4	315	445	3	0.23	2.9	4.4	2.8	71.5
331	400	13.9	7.5	4	315	445	3	0.33	2	3	2	97
345	434	16.7	9	5	320	480	4	0.3	2.3	3.4	2.2	125
338	422	13.9	7.5	5	320	480	4	0.4	1.7	2.5	1.6	160
354	477	22.3	12	5	320	520	4	0.26	2.6	3.9	2.5	135
356	461	22.3	12	5	320	520	4	0.35	1.9	2.9	1.8	190
354	406	11.1	6	3	333	427	2.5	0.17	4	5.9	4	42
	406.2	17.7	9.5	3	332.4	427.6	2.5	0.19	3.62	5.39	3.54	41.8
360	434	16.7	9	4	335	465	3	0.23	2.9	4.4	2.8	78
354	423	13.9	7.5	4	335	465	3	0.31	2.2	3.3	2.2	100
370	465	22.3	12	5	340	520	4	0.31	2.2	3.3	2.2	165
364	455	16.7	9	5	340	520	4	0.4	1.7	2.5	1.6	210
379	513	22.3	12	5	340	560	4	0.26	2.6	3.9	2.5	175
382	493	22.3	12	5	340	560	4	0.35	1.9	2.9	1.8	240
373	426	11.1	6	3	353	447	2.5	0.17	4	5.9	4	45.5
	426.7	17.7	9.5	3	352.4	447.6	2.5	0.18	3.85	5.73	3.76	43.7
385	468	22.3	12	5	358	502	4	0.24	2.8	4.2	2.8	105
377	453	16.7	9	5	358	502	4	0.33	2	3	2	140
394	498	22.3	12	5	360	560	4	0.31	2.2	3.3	2.2	210
383	491	16.7	9	5	360	560	4	0.4	1.7	2.5	1.6	280
427	528	22.3	12	6	366	594	5	0.35	1.9	2.9	1.8	295



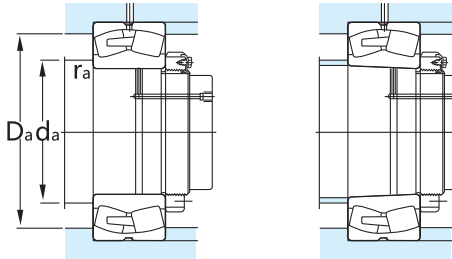
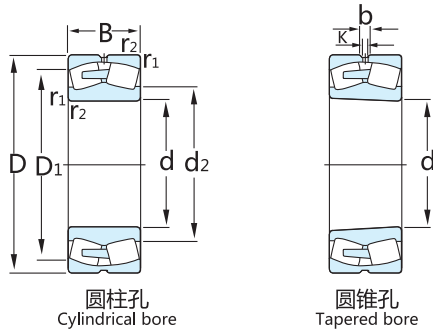
基本尺寸 Basic Size			基本额定负荷 Basic load rating		疲劳负荷极限 Fatigue load limit	额定转速 Rated Speed		型号Designation(Design)		
d	D	B	动态 dynamic C	静态 static Co	pmi Pu	参考转速 Reference Speed	极限转速 Limit Speed	圆柱孔Cylindrical bore	圆锥孔Tapered bore	
mm			kN		kN	r/min		-		
360	480	90	1456	2750	220	1200	1300	23972CC/W33	23972CCK/W33	
	480	90	1440	3200	210	800	1540		23972MB/W33	23972MBK/W33
	540	134	2850	4800	345	950	1200	23072CC/W33	23072MB/W33	23072CCK/W33
	540	180	3705	6550	490	700	1000	24072CC/W33	24072MB/W33	24072CCK30/W33
	600	192	4515	6950	490	750	1000	23172CC/W33	23172MB/W33	23172CCK/W33
	600	243	5737	9300	670	400	600	24172ECCJ/W33	24172MB/W33	24172ECCCK30J/W33
	650	170	4430	6200	440	630	850	22272CA/W33	22272MB/W33	22272CAK/W33
	650	232	5663	8300	570	530	750	23272CA/W33	23272MB/W33	23272CAK/W33
380	520	106	2011	3800	285	1100	1200	23976CC/W33	23976CCK/W33	
	520	106	1780	4000	265	750	1340		23976MB/W33	23976MBK/W33
	560	135	2984	5000	360	900	1200	23076CC/W33	23076MB/W33	23076CCK/W33
	560	180	3786	6800	475	670	950	24076CC/W33	24076MB/W33	24076CC/K30W33
	620	194	4561	7100	500	560	1000	23176CA/W33	23176MB/W33	23176CAK/W33
	620	243	5936	9800	710	360	530	24176ECA/W33	24176MB/W33	24176ECAK30/W33
	680	240	6126	9150	620	500	750	23276CA/W33	23276MB/W33	23276CAK/W33
400	540	106	2038	3900	290	1100	1200	23980CC/W33	23980CCK/W33	
	540	106	1830	4150	270	710	1290		23980MB/W33	23980MBK/W33
	600	148	3511	5850	415	850	1100	23080CC/W33	23080MB/W33	23080CCK/W33
	600	200	4507	8000	560	630	900	24080ECCJ/W33	24080MB/W33	24080ECCCK30J/W33
	650	200	4864	7650	530	530	950	23180CA/W33	23180MB/W33	23180CAK/W33
	650	250	6331	10600	735	340	500	24180ECA/W33	24180MB/W33	24180ECAK30/W33
	720	256	6881	10400	680	480	670	23280CA/W33	23280MB/W33	23280CAK/W33
	820	243	7832	10400	670	430	750	22380CA/W33	22380MB/W33	22380CAK/W33
420	560	106	2083	4150	300	1000	1100	23984CC/W33	23984CCK/W33	
	560	106	1910	4450	300	660	1230		23984MB/W33	23984MBK/W33
	620	150	3541	6000	415	600	1100	23084CA/W33	23084MB/W33	23084CAK/W33
	620	200	4610	8300	585	530	900	24084ECA/W33	24084MB/W33	24084ECAK30/W33
	700	224	5919	9300	620	480	900	23184CJ/W33	23184MB/W33	23184CKJ/W33
	700	280	7577	12600	850	320	480	24184ECA/W33	24184MB/W33	24184ECAK30/W33
	760	272	7677	11600	765	450	630	23284CA/W33	23284MB/W33	23284CAK/W33

尺寸 Dimensions					挡肩及倒角尺寸 Abutment and chamfer dimensions			计算系数 Calculation coefficient				质量 Mass
d2 ~	D1 ~	b	k	r1,2 min	da min	Da max	ra max	e	Y1	Y2	Y0	kg
mm					mm			-				
394	447	11.1	6	3	373	467	2.5	0.15	4.5	6.7	4.5	46.0
	447.1	17.7	9.5	3	372.4	467.6	2.5	0.17	4.05	6.04	3.96	46.5
404	483	22.3	12	5	378	522	4	0.23	2.9	4.4	2.8	110
397	474	16.7	9	5	378	522	4	0.31	2.2	3.3	2.2	145
418	524	22.3	12	5	380	580	4	0.30	2.3	3.4	2.2	220
404	511	16.7	9	5	380	580	4	0.40	1.7	2.5	1.6	280
454	568	22.3	12	6	386	624	5	0.26	2.6	3.9	2.5	255
449	552	22.3	12	6	386	624	5	0.35	1.9	2.9	1.8	335
419	481	13.9	7.5	4	395	505	3	0.17	4	5.9	4	69.0
	477.6	17.7	9.5	4	394.6	505.4	3	0.19	3.58	5.33	3.5	69.1
426	509	22.3	12	5	398	542	4	0.22	3	4.6	2.8	115
419	497	16.7	9	5	398	542	4	0.30	2.3	3.4	2.2	150
454	541	22.3	12	5	400	600	4	0.30	2.3	3.4	2.2	230
444	532	16.7	9	5	400	600	4	0.37	1.8	2.7	1.8	300
473	581	22.3	12	6	406	654	5	0.35	1.9	2.9	1.8	375
439	500	13.9	7.5	4	415	525	3	0.16	4.2	6.3	4	71.0
	499	17.7	9.5	4	414.6	525.4	3	0.18	3.71	5.52	3.63	72.9
450	543	22.3	12	5	418	582	4	0.23	2.9	4.4	2.8	150
442	527	22.3	12	5	418	582	4	0.30	2.3	3.4	2.2	205
475	566	22.3	12	5	426	624	5	0.28	2.4	3.6	2.5	265
467	559	22.3	12	6	426	624	5	0.37	1.8	2.7	1.8	340
500	615	22.3	12	6	426	694	6	0.35	1.9	2.9	1.8	450
534	697	22.3	12	7.5	432	788	6	0.30	2.3	3.4	2.2	650
459	520	16.7	9	4	435	545	3	0.16	4.2	6.3	4	74.5
	519.5	17.7	9.5	4	434.6	545.4	3	0.18	3.85	5.73	3.76	75.5
487	563	22.3	12	5	438	602	4	0.22	3	4.6	2.8	155
477	547	22.3	12	5	438	602	4	0.30	2.3	3.4	2.2	210
483	607	22.3	12	6	446	674	5	0.30	2.3	3.4	2.2	350
494	597	22.3	12	6	446	674	5	0.40	1.7	2.5	1.6	445
526	649	22.3	12	7.5	452	728	6	0.35	1.9	2.9	1.8	535



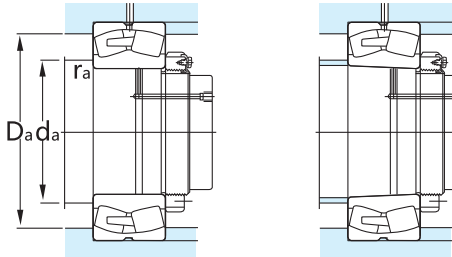
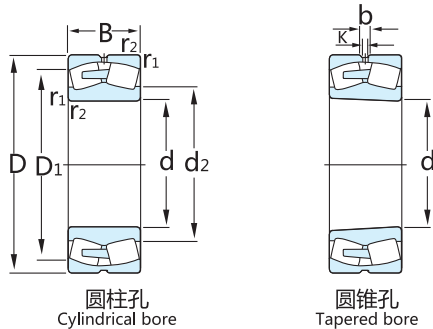
基本尺寸 Basic Size			基本额定负荷 Basic load rating		疲劳负荷极限 Fatigue load limit	额定转速 Rated Speed		型号Designation(Design)		
d	D	B	动态 dynamic C	静态 static C ₀	P ₀	参考转速 Reference Speed	极限转速 Limit Speed	圆柱孔Cylindrical bore	圆锥孔Tapered bore	
mm			kN		kN	r/min		-		
440	600	118	2506	4900	345	950	1000	23988CC/W33		23988CCK/W33
	600	118	2230	5200	295	620	1130		23988MB/W33	23988MBK/W33
	650	157	3831	6550	450	560	1000	23088CA/W33	23088MB/W33	23088CAK/W33
	650	212	4987	9150	630	500	850	24088ECA/W33	24088MB/W33	24088ECAK30/W33
	720	226	6215	10000	670	450	850	23188CA/W33	23188MB/W33	23188CAK/W33
	720	280	7777	13200	900	300	450	24188ECA/W33	24188MB/W33	24188ECAK30/W33
	790	280	8150	12500	800	430	600	23288CA/W33	23288MB/W33	23288CAK/W33
460	580	118	2082	4900	345	630	1100	24892CAMA/W20		24892CAK30MA/W20
	580	118	1940	5100	330	325	1020		24892MB/W33	
	620	118	2558	5000	355	600	1000	23992CA/W33		23992CAK/W33
	620	118	2270	5400	370	590	1080		23992MB/W33	23992MBK/W33
	680	163	4065	6950	465	560	950	23092CA/W33	23092MB/W33	23092CAK/W33
	680	218	5401	10000	670	480	800	24092ECA/W33	24092MB/W33	24092ECAK30/W33
	760	240	6760	10800	680	430	800	23192CA/W33	23192MB/W33	23192CAK/W33
	760	300	8608	14600	1000	280	430	24192ECA/W33	24192MB/W33	24192ECAK30/W33
	830	296	8958	13700	880	400	560	23292CA/W33	23292MB/W33	23292CAK/W33
480	600	90	1440	3750	280	530	1100	23896CAMA/W20		23896CAKMA/W20
	650	128	2990	5700	405	560	1000	23996CA/W33	23996MB/W33	23996CAK/W33
	700	165	3996	6800	450	530	950	23096CA/W33	23096MB/W33	23096CAK/W33
	700	218	5524	10400	695	450	750	24096ECA/W33	24096MB/W33	24096ECAK30/W33
	790	248	7362	12000	780	400	750	23196CA/W33	23196MB/W33	23196CAK/W33
	790	308	9198	15600	1040	260	400	24196ECA/W33	24196MB/W33	24196ECAK30/W33
	870	310	9805	15000	950	380	530	23296CA/W33	23296MB/W33	23296CAK/W33
500	620	90	1480	4000	290	530	1000	238/500CAMA/W20		238/500CAKMA/W20
	620	118	2070	5700	265	290	930		248/500MB/W33	
	670	128	2967	6000	415	530	950	239/500CA/W33		239/500CAK/W33
	670	128	2600	6300	400	540	990		239/500MB/W33	
	720	167	4358	7800	510	500	900	230/500CA/W33	230/500MB/W33	230/500CAK/W33
	720	218	5777	11000	735	430	700	240/500ECA/W33	240/500MB/W33	240/500ECAK30/W33
	830	264	8037	12900	830	380	700	231/500CA/W33	231/500MB/W33	231/500CAK/W33
	830	325	10123	17000	1120	260	380	241/500ECA/W33	241/500MB/W33	241/500ECAK30/W33
	920	336	11183	17300	1060	360	500	232/500CA/W33	232/500MB/W33	232/500CAK/W33

尺寸 Dimensions					挡肩及倒角尺寸 Abutment and chamfer dimensions			计算系数 Calculation coefficient				质量 Mass
d ₂ ~	D ₁ ~	b	k	r _{1,2} min	d _a min	D _a max	r _a max	e	Y ₁	Y ₂	Y ₀	kg
mm					mm			-				
484	553	16.7	9	4	455	585	3	0.16	4.2	6.3	4	99.5
	552.8	23.5	12.5	4	454.6	585.4	3	0.18	3.66	5.46	3.58	101
511	590	22.3	12	6	463	627	5	0.22	3	4.6	2.8	180
499	572	22.3	12	6	463	627	5	0.30	2.3	3.4	2.2	245
529	632	22.3	12	6	466	694	5	0.30	2.3	3.4	2.2	360
516	618	22.3	12	6	466	694	5	0.37	1.8	2.7	1.8	460
549	676	22.3	12	7.5	472	758	6	0.35	1.9	2.9	1.8	590
505	541		7.5	3	473	567	2.5	0.17	4	5.9	4	75.5
	542.6	12.2	6.3	3	472.4	567.6	2.5	0.18	3.76	5.59	3.67	71
516	574	16.7	9	4	475	605	3	0.16	4.2	6.3	4	105
	573.3	23.5	12.5	4	474.6	605.4	3	0.18	3.85	5.73	3.76	111
533	617	22.3	12	6	483	657	5	0.22	3	4.6	2.8	205
524	601	22.3	12	6	483	657	5	0.28	2.4	3.6	2.5	275
555	666	22.3	12	7.5	492	728	6	0.30	2.3	3.4	2.2	440
543	649	22.3	12	7.5	492	728	6	0.37	1.8	2.7	1.8	560
574	706	22.3	12	7.5	492	798	6	0.35	1.9	2.9	1.8	695
521	566		7.5	3	493	587	2.5	0.13	5.2	7.7	5	61.0
537	602	16.7	9	5	498	632	4	0.18	3.8	5.6	3.6	125
549	633	22.3	12	6	503	677	5	0.21	3.2	4.8	3.2	215
542	619	22.3	12	6	503	677	5	0.28	2.4	3.6	2.5	285
579	692	22.3	12	7.5	512	758	6	0.30	2.3	3.4	2.2	485
564	678	22.3	12	7.5	512	758	6	0.37	1.8	2.7	1.8	605
602	741	22.3	12	7.5	512	838	6	0.35	1.9	2.9	1.8	800
543	587		7.5	3	513	607	2.5	0.12	5.6	8.4	5.6	62.0
	583.5	12.2	6.3	3	512.4	607.6	2.5	0.17	4	5.96	3.91	84.3
561	622	22.3	12	5	518	652	4	0.17	4	5.9	4	130
	619.3	23.5	12.5	5	518	652	4	0.17	3.9	5.81	3.81	132
573	658	22.3	12	6	523	697	5	0.21	3.2	4.8	3.2	225
566	644	22.3	12	6	523	697	5	0.26	2.6	3.9	2.5	295
605	726	22.3	12	7.5	532	798	6	0.30	2.3	3.4	2.2	580
588	713	22.3	12	7.5	532	798	6	0.37	1.8	2.7	1.8	700
633	779	22.3	12	7.5	532	888	6	0.35	1.9	2.9	1.8	985



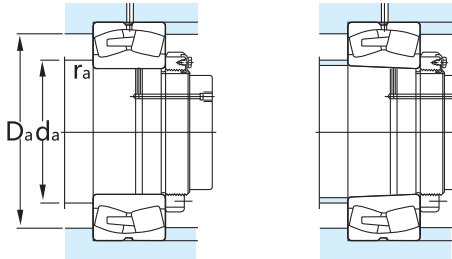
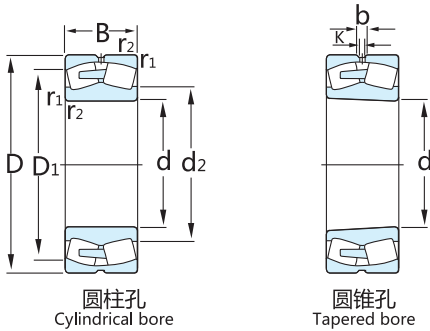
基本尺寸 Basic Size			基本额定负荷 Basic load rating		疲劳负荷极限 Fatigue load limit	额定转速 Rated Speed		型号Designation(Design)	
d	D	B	动态 dynamic C	静态 static C ₀	P _u	参考转速 Reference Speed	极限转速 Limit Speed	圆柱孔Cylindrical bore	圆锥孔Tapered bore
mm			kN		kN	r/min		-	-
530	650	118	2124	5300	380	530	950	248/530CAMA/W20	248/530CAK30MA/W20
	650	118	2240	6400	370	260	880	239/530CA/W33	248/530MB/W33
	710	136	3308	6700	465	500	900		239/530CAK/W33
	710	136	2850	6900	385	500	930	230/530CA/W33	239/530MB/W33
	780	185	5267	9300	610	450	800	240/530ECA/W33	230/530CAK/W33
	780	250	6973	13200	830	400	670	231/530CA/W33	240/530ECAK30/W33
	870	272	8526	14000	880	360	670	241/530ECA/W33	231/530CAK/W33
	870	335	10909	19000	1220	240	360	232/530CA/W33	241/530MB/W33
	980	355	13268	20400	1220	320	480		232/530CAK/W33
	980	355	10900	20900	1190	230	570		232/530MB/W33
560	680	118	2210	6300	390	250	840	239/560CA/W33	248/560MB/W33
	750	140	3571	7200	500	450	850		239/560CAK/W33
	750	140	3100	7600	520	465	880	230/560CA/W33	239/560MB/W33
	820	195	5779	10200	670	430	750	240/560ECA/W33	230/560CAK/W33
	820	258	7621	14600	980	380	630	231/560CA/W33	240/560ECAK30/W33
	920	280	9596	16000	980	340	630	241/560ECJ/W33	231/560CAK/W33
	920	355	12366	21600	1340	220	320	232/560CA/W33	241/560ECK30J/W33
	1030	365	13940	22000	1320	280	430		232/560CAK/W33
	1030	365	11700	22600	910	215	540		232/560MB/W33
									232/560MBK/W33
600	730	98	1960	5300	350	435	980	239/600CA/W33	238/600MB/W33
	730	128	2550	7300	440	228	780		238/600MBK/W33
	800	150	4022	8300	570	430	750	230/600CA/W33	239/600CAK/W33
	800	150	3450	8600	630	430	810	240/600ECA/W33	239/600MB/W33
	870	200	6252	11400	735	400	700	231/600CA/W33	230/600CAK/W33
	870	272	8580	17000	1080	340	560	241/600ECA/W33	240/600ECAK30/W33
	980	300	10738	18000	1100	320	560	232/600CA/W33	231/600CAK/W33
	980	300	9000	19200	810	270	560		231/600MB/W33
	980	375	13522	23600	1460	200	300	241/600MB/W33	241/600ECAK30/W33
	980	375	11600	26000	1780	149	480		
	1090	388	15652	25500	1460	260	400		232/600CAK/W33
	1090	388	13000	25500	1720	196	495		232/600MBK/W33
630	780	112	2545	6100	415	430	750	238/630CAMA/W20	238/630CAKMA/W20
	780	150	3200	9000	560	209	700	239/630CA/W33	248/630MB/W33
	850	165	4744	9800	630	400	700		239/630CAK/W33
	850	165	4100	9900	710	405	740	230/630CA/W33	239/630MB/W33
	920	212	6898	12500	780	380	670	240/630ECA/W33	230/630CAK/W33
	920	290	9150	18000	1120	320	530	231/630CA/W33	240/630ECK30J/W33
	1030	315	12600	20800	1220	260	530		231/630CAK/W33
	1030	315	9800	20700	1420	255	530	241/630ECA/W33	231/630MB/W33
	1030	400	15001	27000	1630	190	280		231/630MBK/W33
	1030	400	13100	29500	1990	136	440		241/630ECAK30/W33
	1150	412	14400	28500	1350	181	465		232/630MB/W33
									232/630MBK/W33

尺寸 Dimensions					挡肩及倒角尺寸 Abutment and chamfer dimensions			计算系数 Calculation coefficient				质量 Mass
d ₂	D ₁	b	k	r _{1,2} min	d _a min	D _a max	r _a max	e	Y ₁	Y ₂	Y ₀	kg
mm					mm			-				
573	612		7.5	3	543	637	2.5	0.15	4.5	6.7	4.5	86.0
	614.1	12.2	6.3	3	542.4	637.6	2.5	0.16	4.22	6.29	4.13	89.7
594	661	22.3	12	5	548	692	4	0.17	4	5.9	4	155
	656.5	23.5	12.5	5	548	692	4	0.18	3.85	5.73	3.76	160
613	710	22.3	12	6	553	757	5	0.22	3	4.6	2.8	310
601	687	22.3	12	6	553	757	5	0.28	2.4	3.6	2.5	410
638	763	22.3	12	7.5	562	838	6	0.30	2.3	3.4	2.2	645
623	748	22.3	12	7.5	562	838	6	0.37	1.8	2.7	1.8	830
670	836	22.3	12	9.5	570	940	8	0.35	1.9	2.9	1.8	1200
	824.4	23.5	12.5	9.5	570	940	8	0.38	1.77	2.64	1.73	1240
	644.6	12.2	6.3	3	542	638	2.5	0.15	4.47	6.65	4.37	92.7
627	697	22.3	12	5	578	732	4	0.16	4.2	6.3	4	175
	693.4	23.5	12.5	5	578	732	4	0.17	3.95	5.88	3.86	181
646	746	22.3	12	6	583	797	5	0.22	3	4.6	2.8	355
637	728	22.3	12	6	583	797	5	0.28	2.4	3.6	2.5	465
675	809	22.3	12	7.5	592	888	6	0.30	2.3	3.4	2.2	740
634	796	22.3	12	7.5	592	888	6	0.35	1.9	2.9	1.8	985
706	878	22.3	12	9.5	600	990	8	0.35	1.9	2.9	1.8	1350
	868.1	23.5	12.5	9.5	600	990	8	0.38	1.78	2.65	1.74	1397
	696.3	12.2	6.3	3	612.4	717.6	2.5	0.12	5.78	8.61	5.65	87
671	691.5	12.2	6.3	3	612.4	717.6	2.5	0.15	4.4	6.56	4.31	116
	744	22.3	12	5	618	782	4	0.17	4	5.9	4	220
	740.5	23.5	12.5	5	618	782	4	0.17	3.95	5.88	3.86	224
685	789	22.3	12	6	623	847	5	0.22	3	4.6	2.8	405
675	774	22.3	12	6	623	847	5	0.30	2.3	3.4	2.2	520
722	863	22.3	12	7.5	632	948	6	0.30	2.3	3.4	2.2	895
	852.6	23.5	12.5	7.5	632	948	6	0.31	2.2	3.27	2.15	929
702	845	22.3	12	7.5	632	948	6	0.37	1.8	2.7	1.8	1200
	833	23.5	12.5	7.5	632	948	6	0.38	1.79	2.67	1.75	1180
754	929	22.3	12	9.5	640	1050	8	0.35	1.9	2.9	1.8	1600
	919.5	23.5	12.5	9.5	640	1050	8	0.37	1.83	2.72	1.79	1634
682	738		9	4	645	765	3	0.12	5.6	8.4	5.6	120
	734.2	15	8	4	645	765	3	0.17	3.95	5.88	3.86	163
708	787	22.3	12	6	653	827	5	0.17	4	5.9	4	280
	784.5	23.5	12.5	6	653	827	5	0.18	3.8	5.66	3.72	292
727	839	22.3	12	7.5	658	892	6	0.21	3.2	4.8	3.2	485
697	823	22.3	12	7.5	658	892	6	0.28	2.4	3.6	2.5	645
755	918	22.3	12	7.5	662	998	6	0.30	2.3	3.4	2.2	1050
	896.2	23.5	12.5	7.5	662	998	6	0.31	2.21	3.29	2.16	1074
738	885	22.3	12	7.5	662	998	6	0.37	1.8	2.7	1.8	1400
	872.2	23.5	12.5	7.5	662	998	6	0.38	1.78	2.65	1.74	1393
	969.2	23.5	12.5	12	678	1102	10	0.37	1.8	2.69	1.76	1940



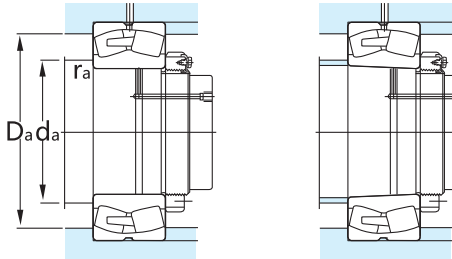
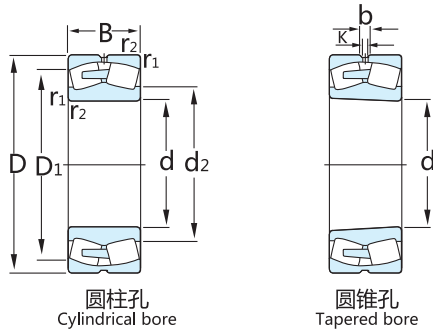
基本尺寸 Basic Size			基本额定负荷 Basic load rating		疲劳负 荷极限 Fatigue load limit	额定转速 Rated Speed		型号Designation(Design)		
d	D	B	动态 dynamic C	静态 static C ₀	P _u	参考转速 Reference Speed	极限转速 Limit Speed	圆柱孔Cylindrical bore		圆锥孔Tapered bore
mm			kN		kN	r/min		-		
670	820	112	2643	6400	430	400	700	238/670CAMA/W20		238/670CAKMA/W20
	820	112	2380	6900	445	380	810			238/670MBK/W33
	820	150	2398	9500	655	400	700	248/670CAMA/W20	238/670MB/W33	
	820	150	3350	9700	590	191	670		248/670MB/W33	
	900	230	5900	14900	940	174	580			249/670MBK30/W33
	900	170	5146	10800	680	360	670	239/670CA/W33	239/670MB/W33	239/670CAK/W33
	900	170	4300	10600	750	375	710			239/670MBK/W33
	980	230	7919	14600	880	340	600	230/670CA/W33	230/670MB/W33	230/670CAK/W33
	980	230	7200	15800	1100	350	630			230/670MBK/W33
	980	308	10435	20400	1290	300	500	240/670ECA/W33	240/670MB/W33	240/670ECAK30/W33
	980	308	9000	21500	1480	239	510			240/670MBK30/W33
	1090	336	13101	22400	1320	240	500	231/670CA/W33	231/670MB/W33	231/670CAK/W33
	1090	336	11000	23900	1560	230	495			231/670MBK/W33
	1090	412	16381	29000	1760	180	260	241/670ECA/W33	241/670MB/W33	241/670ECAK30/W33
	1090	412	14000	31500	2110	127	420			241/670MBK30/W33
	1220	438	18650	30500	1700	220	360	232/670CA/W33	232/670MB/W33	232/670CAK/W33
	1220	438	16000	32000	2130	165	430			232/670MBK/W33
710	870	118	3013	7500	500	360	670	238/710CAMA/W20		238/710MBK/W33
	870	118	2650	7500	540	355	770		238/710MB/W33	
	870	160	3700	11000	780	175	610	248/710CAMA/W20	248/710MB/W33	
	950	180	5702	12000	750	340	600	239/710CA/W33	239/710MB/W33	239/710CAK/W33
	950	180	4800	12100	720	350	670			239/710MBK/W33
	950	243	6860	15600	920	300	500	249/710CA/W33	249/710MB/W33	249/710CAK30/W33
	950	243	6600	16900	1060	159	550			249/710MBK30/W33
	1030	236	8669	16300	965	300	560	230/710CA/W33	230/710MB/W33	230/710CAK/W33
	1030	236	7600	16900	1150	325	590			230/710MBK/W33
	1030	315	11164	22800	1430	260	450	240/710ECA/W33	240/710MB/W33	240/710ECAK30/W33
	1030	315	9600	23000	1560	223	480		240/710MB/W33	240/710MBK30/W33
	1150	345	14732	26000	1530	240	450	231/710CA/W33	231/710MB/W33	231/710CAK/W33
	1150	345	12500	27000	1790	207	470			231/710MBK/W33
	1150	438	17935	32500	1900	160	240	241/710ECA/W33	241/710MB/W33	241/710ECAK30/W33
	1150	438	15600	35500	2290	116	395		241/710MB/W33	241/710MBK30/W33
	1280	450	21208	34500	2000	200	320	232/710CA/W33	232/710MB/W33	232/710CAK/W33
	1280	450	17200	35500	2320	149	405			232/710MBK/W33
750	920	128	3405	8500	550	340	600	238/750CAMA/W20		238/750CAKMA/W20
	920	128	3000	8700	600	330	720		238/750MB/W33	238/750MBK/W33
	920	170	4150	12500	740	160	570	248/750CAMA/W20	248/750MB/W33	
	1000	185	6138	13200	800	320	560	239/750CA/W33	239/750MB/W33	239/750CAK/W33
	1000	185	5200	13000	790	325	640			239/750MBK/W33
	1000	250	7699	18000	1100	280	480	249/750CA/W33	249/750MB/W33	249/750CAK30/W33
	1000	250	7200	18900	1170	143	510		249/750MB/W33	249/750MBK30/W33
	1090	250	10061	18600	1100	280	530	230/750CA/W33	230/750MB/W33	230/750CAK/W33
	1090	250	8500	19100	1010	305	550			230/750MBK/W33
	1090	335	12235	25000	1460	240	430	240/750ECA/W33	240/750MB/W33	240/750ECAK30/W33
	1090	335	10800	26000	1740	204	445		240/750MB/W33	240/750MBK30/W33
	1220	365	16518	29000	1700	220	430	231/750CA/W33	231/750MB/W33	231/750CAK/W33
	1220	365	14100	30500	1970	189	445			231/750MBK/W33
	1220	475	20434	37500	2160	150	220	241/750ECA/W33	241/750MB/W33	241/750ECAK30/W33
	1220	475	17800	41000	2600	104	360		241/750MB/W33	241/750MBK30/W33
	1360	475	22478	36500	2000	190	300	232/750CAF/W33	232/750MB/W33	232/750CAK/W33
	1360	475	19300	39500	2500	137	380			232/750MBK/W33
800	980	136	3400	9900	680	305	660	248/800CAMA/W20	238/800MB/W33	238/800MBK/W33
	980	180	4780	12900	830	320	560		248/800MB/W33	248/800CAK30MA/W20
	980	180	4650	14000	830	146	540	239/800CA/W33	239/800MB/W33	239/800CAK/W33
	1060	195	6595	14300	865	280	530			239/800MBK/W33
	1060	195	5900	15100	1010	295	580	249/800CA/W33	249/800MB/W33	249/800CAK30/W33
	1060	258	8136	19300	1060	240	430			249/800MBK30/W33
	1060	258	7700	20300	1360	133	480	230/800CA/W33	249/800MB/W33	230/800CAK/W33
	1150	258	10335	20000	1160	260	480			230/800MBK/W33
	1150	258	9300	21200	1420	280	530	240/800ECA/W33	230/800MB/W33	240/800ECAK30/W33
	1150	345	13431	28500	1660	220	400			240/800MBK30/W33
	1150	345	11600	28500	1790	188	420	231/800CA/W33	240/800MB/W33	231/800CAK/W33
	1280	375	18033	31500	1800	200	400			231/800MBK/W33
	1280	375	14900	33500	1660	175	415	241/800ECA/W33	231/800MB/W33	241/800ECAK30/W33
	1280	475	21587	40500	2320	140	200			241/800MBK30/W33
	1280	475	18700	43500	2430	96	345	232/800MB/W33	232/800MB/W33	232/800MBK/W33
	1420	488	20000	41500	1540	130	365			

尺寸 Dimensions					挡肩及倒角尺寸 Abutment and chamfer dimensions			计算系数 Calculation coefficient				质量 Mass
d ₂ ~	D ₁ ~	b	k	r _{1,2} min	d _a min	D _a max	r _a max	e	Y ₁	Y ₂	Y ₀	kg
mm					mm			-				
724	778		9	4	685	805	3	0.11	6.1	9.1	6.3	130
	777.2	15	8	4	684.6	805.4		0.12	5.72	8.51	5.59	129
726	772		9	4	685	805	3	0.16	4.2	6.3	4	172
	775.2	15	8	4	684.6	805.4		0.16	4.22	6.29	4.13	175
	826.5	23.5	12.5	6	693	877	5	0.24	2.81	4.19	2.75	433
752	835	22.3	12	6	693	877	5	0.17	4	5.9	4	315
	831.5	23.5	12.5	6	693	877	5	0.17	3.95	5.88	3.86	320
772	892	22.3	12	7.5	698	952	6	0.21	3.2	4.8	3.2	600
	888.7	23.5	12.5	7.5	698	952	6	0.22	3.01	4.48	2.94	600
758	866	22.3	12	7.5	698	952	6	0.28	2.4	3.6	2.5	790
	873.1	23.5	12.5	7.5	698	952	6	0.31	2.2	3.27	2.15	813
804	959	22.3	12	7.5	702	1058	6	0.30	2.3	3.4	2.2	1250
	948.2	23.5	12.5	7.5	702	1058	6	0.31	2.21	3.29	2.16	1279
782	942	22.3	12	7.5	702	1058	6	0.37	1.8	2.7	1.8	1600
	929.4	23.5	12.5	7.5	702	1058	6	0.37	1.83	2.72	1.79	1544
832	1028	22.3	12	12	718	1172	10	0.35	1.9	2.9	1.8	2270
	1030.7	23.5	12.5	12	718	1172	10	0.37	1.82	2.7	1.78	2317
766	826		12	4	725	855	3	0.11	6.1	9.1	6.3	153
	824.9	15	8	4	724.6	855.4		0.12	5.72	8.51	5.59	153
	821.2	15	8	4	725	855	3	0.16	4.22	6.29	4.13	215
794	882	22.3	12	6	733	927	5	0.17	4	5.9	4	365
	877.5	23.5	12.5	6	733	927	5	0.18	3.85	5.73	3.76	355
792	868	22.3	12	6	733	927	5	0.22	3.6	4.6	2.8	495
	871.7	23.5	12.5	6	733	927	5	0.24	2.81	4.19	2.75	494
816	941	22.3	12	7.5	738	1002	6	0.21	3.2	4.8	3.2	670
	938.8	23.5	12.5	7.5	738	1002	6	0.22	3.07	4.57	3	678
809	918	22.3	12	7.5	738	1002	6	0.27	2.5	3.7	2.5	895
	921.6	23.5	12.5	7.5	738	1002	6	0.3	2.26	3.37	2.21	903
851	1017	22.3	12	9.5	750	1110	8	0.28	2.4	3.6	2.5	1450
	1006.6	23.5	12.5	9.5	750	1110	8	0.3	2.25	3.34	2.2	1450
826	989	22.3	12	9.5	750	1110	8	0.37	1.8	2.7	1.8	1900
	980.2	23.5	12.5	9.5	750	1110	8	0.38	1.79	2.67	1.75	1818
875	1097	22.3	12	12	758	1232	10	0.35	1.9	2.9	1.8	2610
	1088.4	23.5	12.5	12	758	1232	10	0.37	1.83	2.72	1.79	2614
812	873		12	5	768	902	4	0.11	6.1	9.1	6.3	185
	872.1	15	8	5	768	902	4	0.12	5.61	8.36	5.49	186
	868.2	15	8	5	768	902	4	0.16	4.11	6.12	4.02	



基本尺寸 Basic Size			基本额定负荷 Basic load rating		疲劳负荷极限 Fatigue load limit	额定转速 Rated Speed		型号Designation(Design)		
d	D	B	动态 dynamic C	静态 static C ₀	P _u	参考转速 Reference Speed	极限转速 Limit Speed	圆柱孔Cylindrical bore		圆锥孔Tapered bore
mm			kN		kN		r/min	-		
850	1030	136	3882	10000	630	260	530	238/850CAMA/W20		238/850CAKMA/W20
	1030	136	3500	10600	710	285	620		238/850MB/W33	238/850MBK/W33
	1030	180	4850	14900	880	135	510		248/850MB/W33	
	1120	200	7072	15600	930	260	480	239/850CA/W33		239/850CAK/W33
	1120	200	6300	16400	960	275	550		239/850MB/W33	239/850MBK/W33
	1120	272	9390	22800	1370	220	400	249/850CA/W33		249/850CAK30/W33
	1120	272	8400	22500	1370	123	445		249/850MB/W33	249/850MBK30/W33
	1220	272	11291	21600	1250	240	450	230/850CA/W33		230/850CAK/W33
	1220	272	10300	23800	1540	255	490		230/850MB/W33	230/850MBK/W33
	1220	365	15183	31500	1900	200	360	240/850ECA/W33		240/850ECAK30/W33
	1220	365	12800	32000	2060	173	390		240/850MB/W33	240/850MBK30/W33
	1360	400	18300	34500	1900	180	360	231/850CA/W33		231/850CAK/W33
	1360	400	16100	36000	2290	164	385		231/850MB/W33	231/850MBK/W33
	1360	500	27636	45000	2500	130	190	241/850ECAP/W33		241/850ECAK30F/W33
	1360	500	21200	48500	3050	88	330		241/850MB/W33	241/850MBK30/W33
900	1090	140	3750	11600	760	260	590	248/900CAMA/W20	238/900MB/W33	238/900MBK/W33
	1090	190	5428	15300	950	240	480		248/900MB/W33	248/900CAK30MA/W20
	1090	190	5200	16700	960	124	465	239/900CA/W33		239/900CAK/W33
	1180	206	7652	17000	1000	240	450		239/900MB/W33	239/900MBK/W33
	1180	206	6500	17200	1010	260	520	230/900CA/W33		230/900CAK/W33
	1280	280	12002	23200	1320	220	400		230/900MB/W33	230/900MBK/W33
	1280	280	11100	26500	1620	235	455		230/900MBK/W33	230/900MBK/W33
	1420	412	18000	40500	2550	149	365	240/900ECA/W33	231/900MB/W33	231/900MBK/W33
	1280	375	16185	34500	2040	190	340		240/900ECAK30/W33	240/900ECAK30/W33
	1280	375	14200	36500	2220	155	365		240/900MBK30/W33	240/900MBK30/W33
	1420	515	25310	49000	2700	120	180	241/900ECAP/W33		241/900ECAK30F/W33
950	1150	200	5700	18500	1030	114	430	239/950CA/W33	248/950MB/W33	239/950CAK/W33
	1250	224	8606	19600	1120	220	430		239/950MB/W33	239/950MBK/W33
	1250	224	7500	19900	1280	239	475	249/950CA/W33		249/950CAK30/W33
	1250	300	10701	26000	1500	180	340		249/950MB/W33	249/950CAK30/W33
	1250	300	10300	28500	1700	101	385	230/950CA/W33		249/950MBK30/W33
	1360	300	14363	28500	1600	200	380		230/950MB/W33	230/950CAK/W33
	1360	300	12300	29500	1800	218	425	240/950CAF/W33		230/950MBK/W33
	1360	412	17847	39000	2240	170	300		240/950CAK30F/W33	240/950CAK30F/W33
	1360	412	16200	42000	2550	142	335		240/950MBK30/W33	240/950MBK30/W33
	1500	545	27892	55000	3000	110	160	241/950ECAP/W33		241/950ECAK30F/W33
	1500	545	23700	54000	3100	81	300		241/950MB/W33	241/950MBK30/W33
1000	1220	165	5405	14300	850	220	400	238/1000CAMA/W20		238/1000CAKMA/W20
	1220	165	4900	14900	960	231	510		238/1000MB/W33	238/1000MBK/W33
	1220	218	6700	21500	1210	104	405	249/1000CA/W33	248/1000MB/W33	249/1000CAK30/W33
	1320	315	11939	29000	1460	170	320		249/1000MB/W33	249/1000MBK30/W33
	1320	315	11400	31000	1850	95	370	230/1000CAF/W33		230/1000CAKF/W33
	1420	308	14600	30500	1700	180	360		230/1000MB/W33	230/1000MBK/W33
	1420	308	13100	31500	1580	206	405	240/1000CAF/W33		240/1000CAK30F/W33
	1420	412	18592	40500	2240	160	280		240/1000MB/W33	240/1000MBK30/W33
	1420	412	16400	42000	2550	138	330	231/1000CAF/W33		231/1000CAKF/W33
	1580	462	25650	48000	2550	140	280		231/1000MB/W33	231/1000MBK/W33
	1580	462	22000	51000	3150	126	320	241/1000ECAP/W33		241/1000ECAK30F/W33
	1580	580	31174	62000	3350	100	150		241/1000MB/W33	241/1000MBK30/W33
	1580	580	27500	64000	3950	70	275			

尺寸 Dimensions					挡肩及倒角尺寸 Abutment and chamfer dimensions			计算系数 Calculation coefficient				质量 Mass
d ₂ ~	D ₁ ~	b	k	r _{1,2} min	d _a min	D _a max	r _a max	e	Y ₁	Y ₂	Y ₀	
mm								-				kg
912	981	-	12	5	868	1012	4	0.11	6.1	9.1	6.3	240
	978.1	15	8	5	868	1012	4	0.11	6.06	9.02	5.92	236
	973.9	15	8	5	868	1012	4	0.15	4.4	6.56	4.31	312
946	1046	22.3	12	6	873	1097	5	0.16	4.2	6.3	4	560
	1039.9	23.5	12.5	6	873	1097	5	0.16	4.11	6.12	4.02	579
940	1029	22.3	12	6	873	1097	5	0.22	3	4.6	2.8	740
	1033.9	23.5	12.5	6	873	1097	5	0.23	2.98	4.44	2.92	756
972	1117	22.3	12	7.5	878	1192	6	0.20	3.4	5	3.2	1050
	1113.5	23.5	12.5	7.5	878	1192	6	0.21	3.24	4.82	3.16	1078
957	1088	22.3	12	7.5	878	1192	6	0.27	2.5	3.7	2.5	1410
	1092.9	23.5	12.5	7.5	878	1192	6	0.29	2.33	3.47	2.28	1438
1013	1205	22.3	12	12	898	1312	10	0.28	2.4	3.6	2.5	2200
	1197.2	23.5	12.5	12	898	1312	10	0.29	2.35	3.5	2.3	2396
988	1182	22.3	12	12	898	1312	10	0.35	1.9	2.9	1.8	2770
	1171.7	23.5	12.5	12	898	1312	10	0.36	1.89	2.81	1.84	2948
969	1036.1	15	8	5	918	1072	4	0.11	6.06	9.02	5.92	271
	1029	-	12	5	918	1072	4	0.14	4.8	7.2	4.5	370
	1030.5	15	8	5	918	1072	4	0.15	4.4	6.56	4.31	382
996	1101	22.3	12	6	923	1157	5	0.15	4.5	6.7	4.5	605
	1098.8	23.5	12.5	6	923	1157	5	0.16	4.28	6.37	4.19	653
1025	1176	22.3	12	7.5	928	1252	6	0.20	3.4	5	3.2	1200
	1171.3	23.5	12.5	7.5	928	1252	6	0.22	3.14	4.67	3.07	1228
	1252.4	23.5	12.5	12	948	1372	10	0.29	2.33	3.47	2.28	2570
	1149	22.3	12	7.5	928	1252	6	0.26	2.6	3.9	2.5	1570
1015	1150.7	23.5	12.5	7.5	928	1252	6	0.28	2.45	3.64	2.39	1595
	1235	22.3	12	12	948	1372	10	0.35	1.9	2.9	1.8	3350
1056	1087.2	15	8	5	968	1132	4	0.15	4.4	6.56	4.31	431
	1164	22.3	12	7.5	978	1222	6	0.15	4.5	6.7	4.5	755
	1162.5	23.5	12.5	7.5	978	1222	6	0.16	4.22	6.29	4.13	769
1051	1150	22.3	12	7.5	978	1222	6	0.21	3.2	4.8	3.2	1020
	1155	23.5	12.5	7.5	978	1222	6	0.22	3.01	4.48	2.94	1031
1086	1246	22.3	12	7.5	978	1332	6	0.20	3.4	5	3.2	1450
	1244.7	23.5	12.5	7.5	978	1332	6	0.22	3.14	4.67	3.07	1493
1077	1214	22.3	12	7.5	978	1332	6	0.27	2.5	3.7	2.5	1990
	1216	23.5	12.5	7.5	978	1332	6	0.28	2.37	3.53	2.32	1993
1102	1305	22.3	12	12	998	1452	10	0.35	1.9	2.9	1.8	3540
	1306.7	23.5	12.5	12	998	1452	10	0.36	1.87	2.79	1.83	3819
1079	1161	-	12	6	1023	1197	5	0.12	5.6	8.4	5.6	410
	1158	17.7	9.5	6	1023	1197	5	0.12	5.72	8.51	5.59	413
	1151.4	17.7	9.5	6	1023	1197	5	0.16	4.28	6.37	4.19	546
1109	1212	22.3	12	7.5	1028	1292	6	0.21	3.2	4.8	3.2	1200
	1218.4	23.5	12.5	7.5	1028	1292	6	0.22	3.01	4.48	2.94	1212
1139	1305	22.3	12	7.5	1028	1392	6	0.19	3.6	5.3	3.6	1600
	1300.3	23.5	12.5	7.5	1028	1392	6	0.21	3.2	4.77	3.13	1590
1136	1278	22.3	12	7.5	1028	1392	6	0.26	2.6	3.9	2.5	2140
	1278.3	23.5	12.5	7.5	1028	1392	6	0.28	2.41	3.59	2.35	2108
1185	1403	22.3	12	12	1048	1532	10	0.28	2.4	3.6	2.5	3500
	1391.8	23.5	12.5	12	1048	1532	10	0.29	2.33	3.47	2.28	3474
1159	1373	22.3	12	12	1048	1532	10	0.35	1.9	2.9	1.8	4300
	1372.6	23.5	12.5	12	1048	1532	10	0.35	1.91	2.85	1.87	4429



基本尺寸 Basic Size			基本额定负荷 Basic load rating		疲劳负荷极限 Fatigue load limit	额定转速 Rated Speed		型号Designation(Design)		
d	D	B	动态 dynamic C	静态 static C ₀	P _u	参考转速 Reference Speed	极限转速 Limit Speed	圆柱孔Cylindrical bore		圆锥孔Tapered bore
mm			kN		kN	r/min		-		
1060	1280	165	5555	15000	865	200	380	238/1060CAMA/W20		238/1060CAKMA/W20
	1280	165	5100	16100	980	213	480			238/1060MBK/W33
	1280	218	6950	20000	1200	200	380	248/1060CAMA/W20	238/1060MB/W33	248/1060CAK30MA/W20
	1280	218	7000	22700	1270	97	385		248/1060MB/W33	
	1400	250	11333	26000	1430	180	360	239/1060CAF/W33	239/1060MB/W33	239/1060CAKF/W33
	1400	250	9900	26000	1420	202	420			239/1060MBK/W33
	1400	335	13354	32500	1800	160	280	249/1060CAF/W33	249/1060MB/W33	249/1060CAK30F/W33
	1400	335	12900	36000	2240	84	345			249/1060MBK30/W33
	1500	325	16000	34000	1830	170	320	230/1060CAF/W33	230/1060MB/W33	230/1060CAKF/W33
	1500	325	13700	34000	2110	193	375			
	1500	438	20724	45500	2450	150	260	240/1060CAF/W33	240/1060MB/W33	240/1060CAK30F/W33
	1500	438	18800	49500	2950	122	295		240/1060MB/W33	240/1060MBK30/W33
1120	1360	243	8300	24000	1400	180	340	248/1120CAFA/W20		248/1120CAK30FA/W20
	1360	243	8000	26000	1460	90	365		248/1120MB/W33	
	1460	335	13718	34500	1830	140	260	249/1120CAF/W33	249/1120MB/W33	249/1120CAK30F/W33
	1460	335	12800	35500	2180	83	340		230/1120MB/W33	249/1120MBK30/W33
	1580	345	14900	37500	2250	181	350			
	1580	462	22364	50000	2700	130	240	240/1120CAF/W33	240/1120MB/W33	240/1120CAK30F/W33
	1580	462	20900	55000	3250	113	280		240/1120MB/W33	240/1120MBK30/W33
1180	1420	180	6778	18600	1080	170	320	238/1180CAFA/W20		238/1180CAKFA/W20
	1420	180	6000	19200	1110	187	430		238/1180MB/W33	238/1180MBK/W33
	1420	243	8800	27000	1560	170	320	248/1180CAFA/W20	248/1180MB/W33	248/1180CAK30FA/W20
	1420	243	8400	28000	1540	83	335		248/1180MB/W33	
	1540	272	13076	31000	1660	150	300	239/1180CAF/W33	239/1180MB/W33	239/1180CAKF/W33
	1540	272	11300	31000	1770	177	370			239/1180MBK/W33
	1540	355	15751	40500	2160	130	240	249/1180CAF/W33	249/1180MB/W33	249/1180CAK30F/W33
	1540	355	14700	42000	2400	73	305		249/1180MB/W33	249/1180MBK30/W33
	1660	355	16600	42000	2470	166	330		230/1180MB/W33	
1250	1500	250	9000	30500	1220	76	320		248/1250MB/W33	
	1630	375	16000	45500	2700	69	295		249/1250MB/W33	249/1250MBK30/W33
	1750	375	21256	45000	2320	130	240	230/1250CAF/W33	230/1250MB/W33	230/1250CAKF/W33
	1750	375	18100	46500	2700	154	310		230/1250MB/W33	230/1250MBK/W33
1320	1600	280	11200	33500	1860	140	260	248/1320CAFA/W20		248/1320CAK30FA/W20
	1600	280	10300	35000	1900	71	295		248/1320MB/W33	
	1720	400	18714	49000	2500	110	200	249/1320CAF/W33	249/1320MB/W33	249/1320CAK30F/W33
	1720	400	17600	52000	2370	62	265		249/1320MB/W33	249/1320MBK30/W33
1400	1700	300	12100	41000	2220	63	270		248/1400MB/W33	
1500	1820	315	14684	45000	2400	110	220	248/1500CAFA/W20		248/1500CAK30FA/W20
	1820	315	13000	44500	2380	58	255		248/1500MB/W33	
1600	1950	345	16000	54000	3000	51	240		248/1600MB/W33	
1700	2060	355	17100	60000	2850	46	218		248/1700MB/W33	
1800	2180	375	20274	63000	3050	75	140	248/1800CAFA/W20		248/1800CAK30FA/W20
	2180	375	18700	67000	3400	42	201		248/1800MB/W33	

尺寸 Dimensions					挡肩及倒角尺寸 Abutment and chamfer dimensions			计算系数 Calculation coefficient				质量 Mass
d ₂ ~	D ₁ ~	b	k	r _{1,2} min	d _a min	D _a max	r _a max	e	Y ₁	Y ₂	Y ₀	kg
mm					mm			-				
1137	1219		12	6	1083	1257	5	0.11	6.1	9.1	6.3	435
	1218.6	17.7	9.5	6	1083	1257	5	0.11	6.18	9.2	6.04	435
	1210		12	6	1083	1257	5	0.14	4.8	7.2	4.5	570
	1212.7	17.7	9.5	6	1083	1257	5	0.15	4.54	6.75	4.43	599
	1305	22.3	12	7.5	1088	1372	6	0.16	4.2	6.3	4	1100
	1307.6	23.5	12.5	7.5	1088	1372	6	0.17	4.05	6.04	3.96	1081
	1286	22.3	12	7.5	1088	1372	6	0.21	3.2	4.8	3.2	1400
	1290.7	23.5	12.5	7.5	1088	1372	6	0.21	3.17	4.72	3.1	1436
	1378	22.3	12	9.5	1094	1466	8	0.19	3.6	5.3	3.6	1840
	1374.6	23.5	12.5	9.5	1094	1466	8	0.2	3.38	5.03	3.3	1896
	1349	22.3	12	9.5	1094	1466	8	0.26	2.6	3.9	2.5	2520
	1353.5	23.5	12.5	9.5	1094	1466	8	0.27	2.47	3.67	2.41	2524
1207	1282		12	6	1143	1337	5	0.15	4.5	6.7	4.5	735
	1285	17.7	9.5	6	1143	1337	5	0.15	4.47	6.65	4.37	791
	1350	22.3	12	7.5	1148	1432	6	0.20	3.4	5	3.2	1500
	1352.6	23.5	12.5	7.5	1148	1432	6	0.21	3.27	4.87	3.2	1545
	1445.4	23.5	12.5	9.5	1154	1546	8	0.2	3.42	5.09	3.34	2210
	1423	22.3	12	9.5	1154	1546	8	0.26	2.6	3.9	2.5	2930
	1429.7	23.5	12.5	9.5	1154	1546	8	0.28	2.45	3.64	2.39	2924
1264	1355		12	6	1203	1397	5	0.11	6.1	9.1	6.3	575
	1353.9	17.7	9.5	6	1203	1397	5	0.11	6.18	9.2	6.04	576
	1344		12	6	1203	1397	5	0.14	4.8	7.2	4.5	770
	1345	17.7	9.5	6	1203	1397	5	0.15	4.54	6.75	4.43	790
	1439	22.3	12	7.5	1208	1512	6	0.16	4.2	6.3	4	1400
	1438.3	23.5	12.5	7.5	1208	1512	6	0.17	4.05	6.04	3.96	1385
	1422	22.3	12	7.5	1208	1512	6	0.20	3.4	5	3.2	1800
	1428.9	23.5	12.5	7.5	1208	1512	6	0.22	3.14	4.67	3.07	1788
	1522.2	23.5	12.5	9.5	1214	1626	8	0.21	3.27	4.87	3.2	2513
1415	1423.5	17.7	9.5	6	1273	1477	5	0.14	4.67	6.96	4.57	918
	1510.5	23.5	12.5	7.5	1278	1602	6	0.21	3.24	4.82	3.16	2132
	1611	22.3	12	9.5	1284	1716	8	0.19	3.6	5.3	3.6	2840
	1607.6	23.5	12.5	9.5	1284	1716	8	0.2	3.34	4.98	3.27	2933
1422	1511		12	6	1343	1577	5	0.15	4.5	6.7	4.5	1160
	1512.8	23.5	12.5	7.5	1343	1577	5	0.15	4.4	6.56	4.31	1235
	1589	22.3	12	7.5	1348	1692	6	0.21	3.2	4.8	3.2	2500
	1595.5	23.5	12.5	7.5	1348	1640	6	0.22	3.1	4.62	3.03	2558
	1606.9	23.5	12.5	7.5	1428	1672	6	0.16	4.34	6.47	4.25	1470
1612	1719		12	7.5	1528	1792	6	0.15	4.5	6.7	4.5	1710
	1722.1	23.5	12.5	7.5	1528	1792	6	0.15	4.47	6.65	4.37	1660
	1846.9	23.5	12.5	7.5	1628	1922	6	0.15	4.54	6.75	4.43	2222
	1946.7	23.5	12.5	7.5	1728	2032	6	0.15	4.47	6.65	4.37	2573
1932	2060		12	9.5	1834	2146	8	0.15	4.5	6.7	4.5	2900
	2060	23.5	12.5	9.5	1834	2146	8	0.15	4.47	6.65	4.37	2992