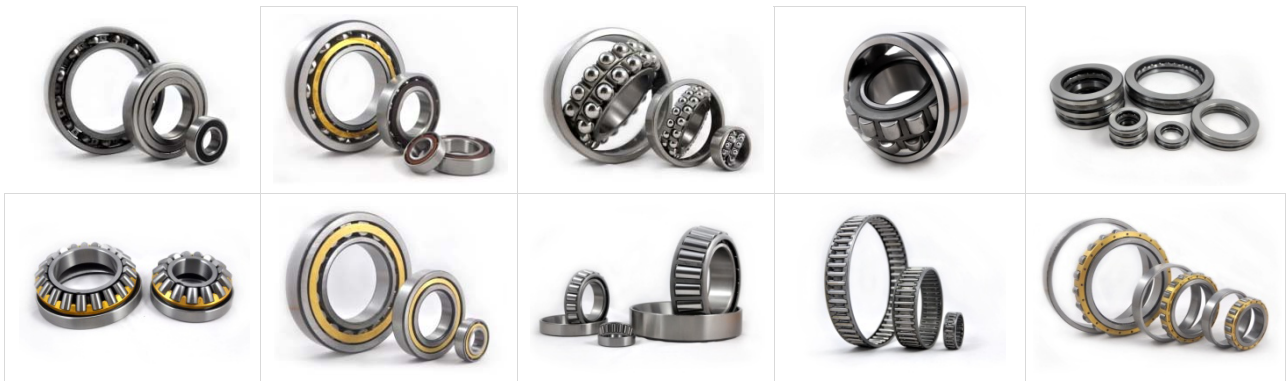


CATALOG 2009

TENGEN BEARING COMPANY



GENERAL CATALOG
ROLLING BEARINGS ▪ BEARING UNITS
Catalog No. GE1200

INTRO VIDEO

TENGEN BEARING COMPANY



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FOREWORD

We would like to thank you for your interest of our catalog 2009, after months of researches and preparations, we are proud to publish this catalog for all our valued customers. We promise we have contributed our best efforts ensuring the correctness, accuracy and completeness of information made available in this catalog. We sincerely hope this publish will help to fill your needs.

The main objective of this catalog is to act as a bearing handbook for bearings substitution from one brand to a product of China. We assure that bearings which are listed in this catalog are within the competitive edge of China market, which means that they are technically established, available in stocks or within the shortest possible delivery lead-time, and lowest requirement of minimum order. Bearing numbers that are not listed in this book might probably available too, please contact us for further information if your bearing numbers are not listed.

The reason why we design this catalog in a way of bearings interchangeability, having few main internationally renowned brands lined up for conversion, is intending to save our customers' hassles when they are looking for bearings substitutions in China. More brands of bearing numbers will be added for conversion in future version of this catalog. We believe with information published in this book, in cooperation with our professional product consultation, we certainly are the Ease of Buying Solution for you to source from China.

Note:

Relevant information of bearings such as Basic Load Ratings, Speed Ratings, Factor, Bearings Weight and etc... published here are extracted from one manufacturers' catalog, these statistics may not be applicable for all brands of bearings, please use these information for reference purpose only.

ABOUT THE COMPANY

TENGEN Bearing Company is established by a group of people who possess vast experiences, professional knowledge of bearings, and bearings' industrial applications. Most of our managers and engineers have been in the bearings market for over 10 years and now closely tightened up with the Chinese market and being constantly updated about the local market information. This has consequently granted us the exclusive access to the rich market resources from around the China regions, and that enabling us the great advantages in aspect of both cost and quality of products.

Locally in China, we are not only dealing with Chinese bearings. We are also a reseller of most internationally renowned brands of bearings such as SKF, FAG, NSK, TIMKEN and etc... This provides us the capability and greater technical knowledge of bearings exchangeability in China market.

OUR MISSION

“We aim to be one of the most preferred Chinese bearings suppliers to all our customers and potential customers worldwide”

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FREQUENTLY APPLIED TECHNICAL DATA OF BEARINGS

Bearings Tolerance Class
Bearings Tolerance Symbols
Tolerance Tables
Bearings Series Symbols
Bearings Supplementary Designations

BEARINGS TOLERANCES CLASSES

Types of Bearings		Tolerance Classes				
Deep Groove Ball Bearings		Normal	Class 6	Class 5	Class 4	Class 2
Angular Contact Ball Bearings		Normal	Class 6	Class 5	Class 4	Class 2
Self-aligning Ball Bearings		Normal	Class 6 equivalent	Class 5 equivalent	—	—
Cylindrical Roller Bearings		Normal	Class 6	Class 5	Class 4	Class 2
Solid Type Needle Roller Bearings		Normal	Class 6	Class 5	Class 4	—
Spherical Roller Bearings		Normal	Class 6 equivalent	Class 5 equivalent	—	—
Thrust Ball Bearings		Normal	Class 6	Class 5	Class 4	—
Spherical Thrust Roller Bearings		Normal	—	—	—	—
Metric-design Tapered Roller Bearings		Normal Class 6X	—	Class 5	Class 4	—
Inch-design Tapered Roller Bearings		ABMA CLASS 4	ABMA CLASS 2	ABMA CLASS 3	ABMA CLASS 0	ABMA CLASS 00
Equivalent standards						
GB/T 307.1 Chinese National Standard		Class 0	Class 6	Class 5	Class 4	Class 2
JIS B1514 Japanese Industrial Standard		Class 0	Class 6	Class 5	Class 4	Class 2
DIN 620 (Deutsches Institut für Normung) German Institute for Standardization		P0	P6	P5	P4	P2
ABMA American Bearing Manufacturers Association	Ball Bearings	ABEC 1	ABEC 3	ABEC 5 (CLASS 5P)	ABEC 7 (CLASS 7P)	ABEC 9 (CLASS 9P)
	Roller Bearings	RBEC 1	RBEC 3	RBEC 5	—	—
	Tapered Roller Bearings	CLASS 4	CLASS 2	CLASS 3	CLASS 0	CLASS 00

Note

1. The most common bearings produced in China are basically Normal Class, in accordance to JIS standard at class zero. (please refer to ISO 492/199/582/ABEC1/GB/T307.1 P0 for detailed requirements of bearings tolerance) You may also obtain detailed bearings tolerance statistics from manufacturers' catalog.
2. Bearings may be produced at Class 6 upon requested by customers for relatively rigid applications. Please contact our sales personnel for detailed information before placing an order.

BEARING TOLERANCES

Symbols of Boundary Dimension and Running Accuracy

d	<i>Nominal bearing bore diameter</i>
Δ_{ds}	<i>Deviation of single bore diameter</i>
Δ_{dmp}	<i>Deviation of mean bore diameter in a single plane</i>
V_{dp}	<i>Variation of mean bore diameter in a single plane</i>
V_{dmp}	<i>Variation of mean bore diameter</i>
B	<i>Nominal inner ring width</i>
Δ_{Bs}	<i>Deviation of single ring width</i>
V_{Bs}	<i>Variation of single ring width</i>
K_{ia}	<i>Radial runout of inner ring of assembled bearing</i>
S_d	<i>Runout of inner ring face to the bore</i>
S_{ia}	<i>Axial runout of end face to inner ring raceway of assembled bearing</i>
S_i / S_e	<i>Variation of washer thickness of (shaft / housing) locating washers</i>
T	<i>Nominal bearing height of a single direction axial bearing</i>
D	<i>Nominal bearing outer diameter</i>
Δ_{Ds}	<i>Deviation of single outer diameter</i>
Δ_{Dmp}	<i>Deviation of mean outer diameter in a single plane</i>
V_{Dp}	<i>Variation of single outer diameter in a single plane</i>
V_{Dmp}	<i>Variation of mean outer diameter</i>
C	<i>Nominal outer ring width</i>
Δ_{Cs}	<i>Deviation of single outer ring width</i>
V_{Cs}	<i>Variation of outer ring width</i>
K_{ea}	<i>Radial runout of outer ring of assembled bearing</i>
S_D	<i>Runout of outer ring outside surface generatrix to the face</i>
S_{ea}	<i>Axial runout of end face to outer ring raceway of assembled bearing</i>

Tolerance Tables (Part 1)

d (mm)		Δ_{dmp} Deviation of Mean Bore Diameter										units : μm	
		Normal		Class 6		Class 5		Class 4		Class 2			
Over	Incl.	High	Low	High	Low	High	Low	High	Low	High	Low		
0.6	2.5	0	-8	0	-7	0	-5	0	-4	0	-2.5		
2.5	10	0	-8	0	-7	0	-5	0	-4	0	-2.5		
10	18	0	-8	0	-7	0	-5	0	-4	0	-2.5		
18	30	0	-10	0	-8	0	-6	0	-5	0	-2.5		
30	50	0	-12	0	-10	0	-8	0	-6	0	-2.5		
50	80	0	-15	0	-12	0	-9	0	-7	0	-4		
80	120	0	-20	0	-15	0	-10	0	-8	0	-5		
120	150	0	-25	0	-18	0	-13	0	-10	0	-7		
150	180	0	-25	0	-18	0	-13	0	-10	0	-7		
180	250	0	-30	0	-22	0	-15	0	-12	0	-8		
250	315	0	-35	0	-25	0	-18	-	-	-	-		
315	400	0	-40	0	-30	0	-23	-	-	-	-		
400	500	0	-45	0	-35	-	-	-	-	-	-		
500	630	0	-50	0	-40	-	-	-	-	-	-		
630	800	0	-75	-	-	-	-	-	-	-	-		
800	1,000	0	-100	-	-	-	-	-	-	-	-		
1,000	1,250	0	-125	-	-	-	-	-	-	-	-		
1,250	1,600	0	-160	-	-	-	-	-	-	-	-		
1,600	2,000	0	-200	-	-	-	-	-	-	-	-		

d (mm)		V_{dmp} Variation of Mean Bore Diameter					Δ_{Bs} (or Δ_{Cs}) Deviation of Single (Outer) Ring Width												units : μm	
		Normal	Class 6	Class 5	Class 4	Class 2	Single Bearing						Combined Bearings							
							Normal Class 6		Class 5 Class 4		Class 2		Normal Class 6		Class 5 Class 4		Class 2			
Over	Incl.	Max	Max	Max	Max	Max	High	Low	High	Low	High	Low	High	Low	High	Low	High	Low		
0.6	2.5	6	5	3	2	1.5	0	-40	0	-40	0	-40	-	-	0	-250	0	-250		
2.5	10	6	5	3	2	1.5	0	-120	0	-40	0	-40	0	-250	0	-250	0	-250		
10	18	6	5	3	2	1.5	0	-120	0	-80	0	-80	0	-250	0	-250	0	-250		
18	30	8	6	3	2.5	1.5	0	-120	0	-120	0	-120	0	-250	0	-250	0	-250		
30	50	9	8	4	3	1.5	0	-120	0	-120	0	-120	0	-250	0	-250	0	-250		
50	80	11	9	5	3.5	2	0	-150	0	-150	0	-150	0	-380	0	-250	0	-250		
80	120	15	11	5	4	2.5	0	-200	0	-200	0	-380	0	-380	0	-380	0	-380		
120	150	19	14	7	5	3.5	0	-250	0	-250	0	-250	0	-500	0	-380	0	-380		
150	180	19	14	7	5	3.5	0	-250	0	-250	0	-250	0	-500	0	-380	0	-380		
180	250	23	17	8	6	4	0	-300	0	-300	0	-300	0	-500	0	-500	0	-500		
250	315	26	19	9	-	-	0	-350	0	-350	-	-	0	-500	0	-500	-	-		
315	400	30	23	12	-	-	0	-400	0	-400	-	-	0	-630	0	-630	-	-		
400	500	34	26	-	-	-	0	-450	-	-	-	-	-	-	-	-	-	-		
500	630	38	30	-	-	-	0	-500	-	-	-	-	-	-	-	-	-	-		
630	800	-	-	-	-	-	0	-750	-	-	-	-	-	-	-	-	-	-		
800	1,000	-	-	-	-	-	0	-1,000	-	-	-	-	-	-	-	-	-	-		
1,000	1,250	-	-	-	-	-	0	-1,250	-	-	-	-	-	-	-	-	-	-		
1,250	1,600	-	-	-	-	-	0	-1,600	-	-	-	-	-	-	-	-	-	-		
1,600	2,000	-	-	-	-	-	0	-2,000	-	-	-	-	-	-	-	-	-	-		

Tolerance Tables (Part 2)

<i>units : μm</i>		K_{ia} Radial runout of inner ring of assembled bearing					S_d Runout of inner ring face to the bore			S_{ia} Axial runout of end face to inner ring raceway of assembled bearing		
		Class 0	Class 6	Class 5	Class 4	Class 2	Class 5	Class 4	Class 2	Class 5	Class 4	Class 2
Over	Incl	Max	Max	Max	Max	Max	Max	Max	Max	Max	Max	Max
0.6	2.5	10	5	4	2.5	1.5	7	3	1.5	7	3	1.5
2.5	10	10	6	4	2.5	1.5	7	3	1.5	7	3	1.5
10	18	10	7	4	2.5	1.5	7	3	1.5	7	3	1.5
18	30	13	8	4	3	2.5	8	4	1.5	8	4	2.5
30	50	15	10	5	4	2.5	8	4	1.5	8	4	2.5
50	80	20	10	5	4	2.5	8	5	1.5	8	5	2.5
80	120	25	13	6	5	2.5	9	5	2.5	9	5	2.5
120	150	30	18	8	6	2.5	10	6	2.5	10	7	2.5
150	180	30	18	8	6	5	10	6	4	10	7	5
180	250	40	20	10	8	5	11	7	5	13	8	5
250	315	50	25	13	-	-	13	-	-	15	-	-
315	400	60	30	15	-	-	15	-	-	20	-	-
400	500	65	35	-	-	-	-	-	-	-	-	-
500	630	70	40	-	-	-	-	-	-	-	-	-
630	800	80	-	-	-	-	-	-	-	-	-	-
800	1,000	90	-	-	-	-	-	-	-	-	-	-
1,000	1,250	100	-	-	-	-	-	-	-	-	-	-
1,250	1,600	120	-	-	-	-	-	-	-	-	-	-
1,600	2,000	140	-	-	-	-	-	-	-	-	-	-

<i>D (mm)</i>		Δ_{Dmp} Deviation of mean outer diameter in a single plane										<i>units : μm</i>	
		Normal		Class 6		Class 5		Class 4		Class 2		High	Low
Over	Incl.	High	Low	High	Low	High	Low	High	Low	High	Low	High	Low
2.5	6	0	-8	0	-7	0	-5	0	-4	0	-2.5	0	-2.5
6	18	0	-8	0	-7	0	-5	0	-4	0	-2.5	0	-2.5
18	30	0	-9	0	-8	0	-6	0	-5	0	-4	0	-4
30	50	0	-11	0	-9	0	-7	0	-6	0	-4	0	-4
50	80	0	-13	0	-11	0	-9	0	-7	0	-4	0	-4
80	120	0	-15	0	-13	0	-10	0	-8	0	-5	0	-5
120	150	0	-18	0	-15	0	-11	0	-9	0	-5	0	-5
150	180	0	-25	0	-18	0	-13	0	-10	0	-7	0	-7
180	250	0	-30	0	-20	0	-15	0	-11	0	-8	0	-8
250	315	0	-35	0	-25	0	-18	0	-13	0	-8	0	-8
315	400	0	-40	0	-28	0	-20	0	-15	0	-10	0	-10
400	500	0	-45	0	-33	0	-23	-	-	-	-	-	-
500	630	0	-50	0	-38	0	-28	-	-	-	-	-	-
630	800	0	-75	0	-45	0	-35	-	-	-	-	-	-
800	1,000	0	-100	0	-60	-	-	-	-	-	-	-	-
1,000	1,250	0	-125	-	-	-	-	-	-	-	-	-	-
1,250	1,600	0	-160	-	-	-	-	-	-	-	-	-	-
1,600	2,000	0	-200	-	-	-	-	-	-	-	-	-	-
2,000	2,500	0	-250	-	-	-	-	-	-	-	-	-	-

Tolerance Tables (Part 3)

<i>units : μm</i>		Δ_{Dmp}					K_{ea}					S_D		
		Deviation of mean outer diameter in a single plane					Radial runout of outer ring of assembled bearing					Runout of outer ring outside surface generatrix to the face		
		D (mm)		Normal	Class 6	Class 5	Class 4	Class 2	Normal	Class 6	Class 5	Class 4	Class 2	Class 5
Over	Incl.	Max	Max	Max	Max	Max	Max	Max	Max	Max	Max	Max	Max	Max
2.5	6	6	5	3	2	1.5	15	8	5	3	1.5	8	4	1.5
6	18	6	5	3	2	1.5	15	8	5	3	1.5	8	4	1.5
18	30	7	6	3	2.5	2	15	9	6	4	2.5	8	4	1.5
30	50	8	7	4	3	2	20	10	7	5	2.5	8	4	1.5
50	80	10	8	5	3.5	2	25	13	8	5	4	8	4	1.5
80	120	11	10	5	4	2.5	35	18	10	6	5	9	5	2.5
120	150	14	11	6	5	2.5	40	20	11	7	5	10	5	2.5
150	180	19	14	7	5	3.5	45	23	13	8	5	10	5	2.5
180	250	23	15	8	6	4	50	25	15	10	7	11	7	4
250	315	26	19	9	7	4	60	30	18	11	7	13	8	5
315	400	30	21	10	8	5	70	35	20	13	8	13	10	7
400	500	34	25	12	-	-	80	40	23	-	-	15	-	-
500	630	38	29	14	-	-	100	50	25	-	-	18	-	-
630	800	55	34	18	-	-	120	60	30	-	-	20	-	-
800	1,000	75	45	-	-	-	140	75	-	-	-	-	-	-
1,000	1,250	-	-	-	-	-	160	-	-	-	-	-	-	-
1,250	1,600	-	-	-	-	-	190	-	-	-	-	-	-	-
1,600	2,000	-	-	-	-	-	220	-	-	-	-	-	-	-
2,000	2,500	-	-	-	-	-	250	-	-	-	-	-	-	-

<i>units : μm</i>		S_{ea}			V_{Cs}		
		Axial runout of end face to outer ring raceway of assembled bearing			Variation of outer ring width		
		D (mm)		Class 5	Class 4	Class 2	Class 5
Over	Incl.	Max	Max	Max	Max	Max	Max
2.5	6	8	5	1.5	5	2.5	1.5
6	18	8	5	1.5	5	2.5	1.5
18	30	8	5	2.5	5	2.5	1.5
30	50	8	5	2.5	5	2.5	1.5
50	80	10	5	4	6	3	1.5
80	120	11	6	5	8	4	2.5
120	150	13	7	5	8	5	2.5
150	180	14	8	5	8	5	2.5
180	250	15	10	7	10	7	4
250	315	18	10	7	11	7	5
315	400	20	13	8	13	8	7
400	500	23	-	-	15	-	-
500	630	25	-	-	18	-	-
630	800	30	-	-	20	-	-
800	1,000	-	-	-	-	-	-
1,000	1,250	-	-	-	-	-	-
1,250	1,600	-	-	-	-	-	-
1,600	2,000	-	-	-	-	-	-
2,000	2,500	-	-	-	-	-	-

BEARINGS SERIES SYMBOLS

Types of Bearings	Bearing Series Symbols	Symbols Type	Dimension Symbols		Types of Bearings	Bearing Series Symbols	Symbols Type	Dimension Symbols		
			Width or Height Symbols	Symbols				Width or Height Symbols	Symbols	
Single-Row Deep Groove Ball Bearings	68	6	(1)	8	Single-Row Cylindrical Roller Bearings	NU10	NU	1	0	
	69	6	(1)	9		NU2	NU	(0)	2	
	60	6	(1)	0		NU22	NU	2	2	
	62	6	(0)	2		NU3	NU	(0)	3	
	63	6	(0)	3		NU23	NU	2	3	
Single Row Angular Contact Ball Bearings	79	7	(1)	9		NU4	NU	(0)	4	
	70	7	(1)	0		NJ2	NJ	(0)	2	
	72	7	(0)	2		NJ22	NJ	2	2	
	73	7	(0)	3		NJ3	NJ	(0)	3	
Self-Aligning Ball Bearings	12	1	(0)	2		NJ23	NJ	2	3	
	13	1	(0)	3		NJ4	NJ	(0)	4	
	22	(1)	2	2		NUP2	NUP	(0)	2	
	23	(1)	2	3		NUP22	NUP	2	2	
Spherical Roller Bearings	230	2	3	0		NUP3	NUP	(0)	3	
	231	2	3	1		NUP23	NUP	2	3	
	222	2	2	2		NUP4	NUP	(0)	4	
	232	2	3	2		N10	N	1	0	
	213(1)	2	0	3		N2	N	(0)	2	
	223	2	2	3		N3	N	(0)	3	
Thrust Ball Bearings	511	5	1	1		N4	N	(0)	4	
	512	5	1	2		NF2	NF	(0)	2	
	513	5	1	3		NF3	NF	(0)	3	
	514	5	1	4		NF4	NF	(0)	4	
	522	5	2	2		Double Row Cylindrical Roller Bearing	NNU49	NNU	4	9
	523	5	2	3			NN30	NNU	3	0
	524	5	2	4	Thrust Spherical Roller Bearings	292	2	9	2	
Taper Roller Bearings	329	3	2	9		293	2	9	3	
	320	3	2	0		294	2	9	4	
	330	3	3	0	Needle Roller Bearings	NA48	N/A	4	8	
	331	3	3	1		NA49	N/A	4	9	
	302	3	0	2		NA59	N/A	5	9	
	322	3	2	2		NA69	N/A	6	9	
	332	3	3	2	Note Numbers in "()" are normally omitted from the bearing numbers.					
	303	3	0	3						
	323	3	2	3						

BEARINGS SUPPLEMENTARY DESIGNATIONS

Frequently Used Suffixes of Bearing Numbers

Attribute	Supplementary Designation			
	Local	SKF	FAG	NSK
Contact Angle Symbol				
Standard contact angle of 30°	A			A
Standard contact angle of 25°	A5	ACD	E	A5
Standard contact angle of 40°	B	B	B	B
Standard contact angle of 15°	C	CD	C	C
Contact angle about 20° (only applied to Tapered Roller Bearings)	C			C
Contact angle about 28° (only applied to Tapered Roller Bearings)	D			D
Internal Design Symbol				
Internal design differs from standard	A	A	A	A
Smaller diameter of outer ring raceway, contact angle, and outer ring width of tapered roller bearings conform to ISO 355	J	X/Q	X	J
Material Symbol				
Case-hardened steel used in rings, rolling elements	G			G
Stainless steel used in rings, rolling elements	H		Z	H
Cage Symbol				
Machined brass cage	M	M	M	M
Synthetic resin cage	T	TN9	TV	T
Pressed steel cage	W	F	F	W
Without cage	V	V	V	V
External Features – Seals, Shields Symbol				
Shield on one side only	Z / ZS	Z	ZR	Z / ZS
Shield on both sides	ZZ / ZZS	2Z	2ZR	ZZ / ZZS
Contact rubber seal on one side only	D / DU	RS	RSR	D / DU
Contact rubber shield on both sides	DD / DDU	2RS	2RSR	DD / DDU
Non-contact rubber seal on one side only	V	RZ		V
Non-contact rubber seal on both sides	VV	2RZ		VV
Rings Design Symbol				
Tapered bore of inner ring (Taper 1:12)	K	K	K	K
Tapered bore of inner ring (Taper 1:30)	K30	K30	K30	K30
Notch or lubricating groove ring	E	E	E	E
Lubricating groove in outside surface and holes in outer ring	E4	E	S	E4
Snap ring groove in outer ring	N	N	N	N
Snap ring groove with snap ring in outer ring	NR	NR	NR	NR
Bearing Arrangement Symbol				
Back to back arrangement	DB	DB	UA	DB
Face to face arrangement	DF	DF	UO	DF
Tandem arrangement	DT	DT	UL	DT
Internal Clearance Symbol				
Clearance less than C2	C1	C1	C1	C1
Clearance less than CN	C2	C2	C2	C2
CN Clearance	CN	C0	C0	CN
Clearance greater than CN	C3	C3	C3	C3
Clearance greater than C3	C4	C4	C4	C4
Clearance greater than C4	C5	C5	C5	C5
Tolerance Class Symbol				
ISO normal (P0 is usually omitted from the bearing numbers)	P0	P0	P0	P0
ISO Class 6	P6	P6	P6	P6
ISO Class 5	P5	P5	P5	P5
ISO Class 4	P4	P4	P4	P4
ISO Class 2	P2			P2
Special Specification Symbol				
Working temperature lower than 150°C	X26	S0	S0	X26
Working temperature lower than 200°C	X28	S1	S1	X28
Working temperature lower than 250°C	X29	S2	S2	X29
Dimensional stabilizing treatment working temperature lower than 200°C	S11	S1	S1	S11

COMPETITIVE PRODUCTS & PRODUCTS GALLERY

COMPETITIVE PRODUCTS LIST

Below listed products are technically established, available in stock or within the shortest possible delivery lead-time, and lowest requirement of minimum order. Please contact us if you are looking for something out of the list.

Deep Groove Ball Bearings

- Single Row Deep Groove Ball Bearings
- Double Row Deep Groove Ball Bearings

Angular Contact Ball Bearings

- Single Row Angular Contact Ball Bearings
- Double Row Angular Contact Ball Bearings
- Four Point Contact Ball Bearings

Self-Aligning Ball Bearings

Spherical Roller Bearings

Thrust Ball Bearings

- Single Direction Thrust Ball Bearings
- Double Direction Thrust Ball Bearings

Thrust Spherical Roller Bearings

Cylindrical Roller Bearings

- Single Row Cylindrical Roller Bearings
- Double Row Cylindrical Roller Bearings
- Full Complement Type Cylindrical Roller Bearings
 - Full Complement Type Single Row Cylindrical Roller Bearings
 - Full Complement Type Double Row Cylindrical Roller Bearings

Tapered Roller Bearings

- Single Row Tapered Roller Bearings
- Double Row Tapered Roller Bearings

Needle Roller Bearings

- Needle Rollers & Cage Assemblies
- Drawn Cup Needle Roller Bearings
- Solid Needle Roller Bearings
- Cam Rollers
- Cam Followers

High Precision Bearings

- High Precision Angular Contact Ball Bearings
- Single Row High Precision Cylindrical Roller Bearings
- Double Row High Precision Cylindrical Roller Bearings

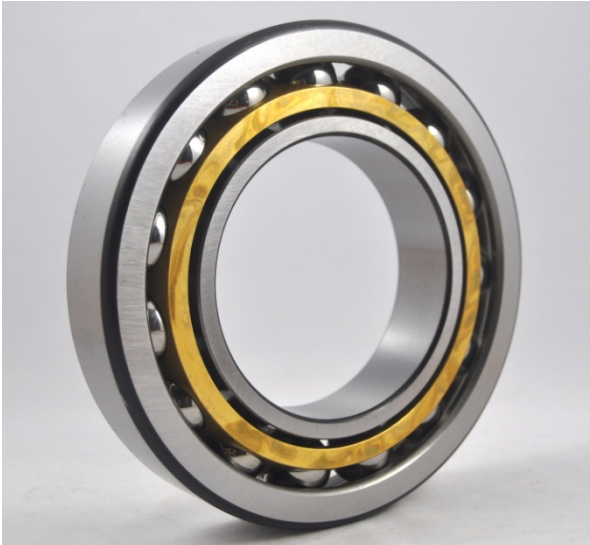
Bearing Units

- Pillow Type Units
 - UCP Series
 - UKT Series
- Square Four Bolt Flange Type Units
 - UCF Series
 - UKF Series
- Oval Flange Type Units
 - UCFL Series
 - UKFL Series
- Round Flange Cartridge Type Units
 - UCFC Series
 - UKFC Series
- Take Up Type Units
 - UCT Series
 - UKT Series
- Ball Bearing Inserts
 - UC, SB, SU Series
 - NA Series
 - ER, RB Series

PRODUCTS GALLERY



DEEP GROOVE BALL BEARINGS



ANGULAR CONTACT BALL BEARINGS



SELF-ALIGNING BALL BEARINGS



SPHERICAL ROLLER BEARINGS



THRUST BALL BEARINGS



THRUST SPHERICAL ROLLER BEARINGS



CYLINDRICAL ROLLER BEARINGS



TAPERED ROLLER BEARINGS



NEEDLE ROLLER BEARINGS



HIGH PRECISION BEARINGS



BEARING UNITS

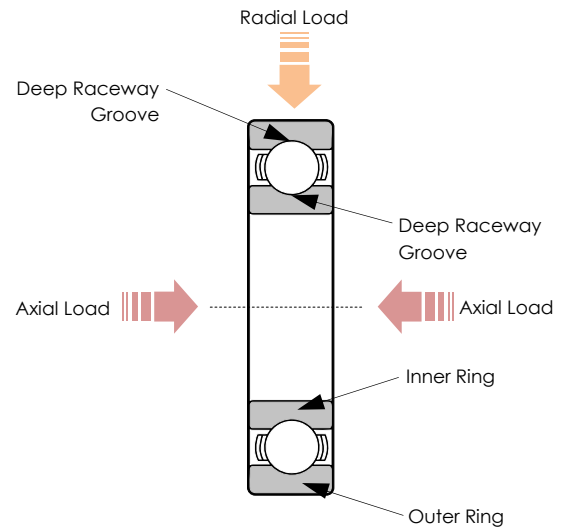
BEARING TABLES

DEEP GROOVE BALL BEARINGS

Deep groove ball bearings are the most common type of rolling bearings and they are widely used in variety of applications, they are consequently available in many executions and sizes. Deep groove ball bearings are generally divided into 2 main types, i.e. Single row and double row.

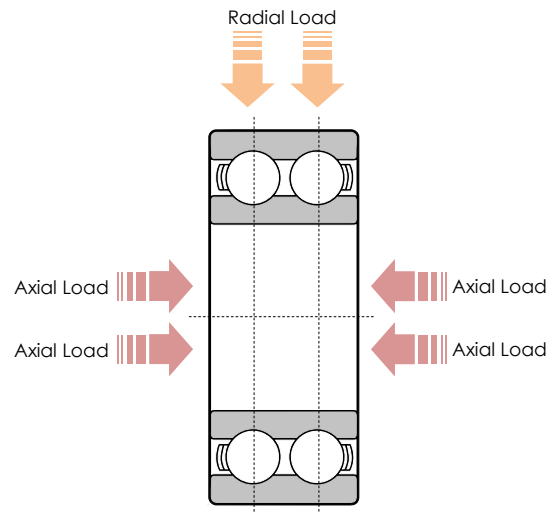
Single Row Deep Groove Ball Bearings

Single row deep groove ball bearings are considerably flexible in applications. They are designed to be simple, and suitable for very high speed operations, and yet required minimum level of maintenance. The balls roll in the deep raceway groove, with a great conformity between the rolling elements and the raceway has enabled it to accommodate axial loads in both directions even at high speeds, in additional to radial loads.



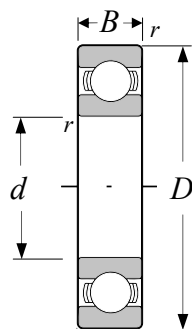
Double Row Deep Groove Ball Bearings

The design of double row deep groove ball bearings is in correspondence to single row deep groove ball bearings. Similarly, there is high conformity between the rolling elements and the raceway, the balls roll at the deep and constant raceway groove, accommodating high axial loads in both directions. Double row deep groove ball bearings are very suitable where situation a single row deep groove ball bearing's carrying capacity is inadequate. With its' similar bore and outer diameter, double row deep groove ball bearings are slightly wider than single row bearings, but having greater capability to accommodate higher loads.

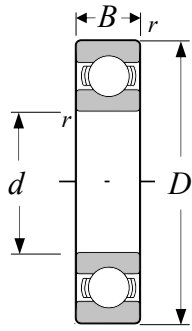


DEEP GROOVE BALL BEARINGS Single Row

Table 1
Bore Diameter 3mm - 7mm



Principal Dimensions			Basic Load Ratings		Speed Ratings		Mass	Designations			
d	D	B	Dynamic C	Static C ₀	Ref. Speed	Limiting Speed		Local	SKF	FAG	NSK
mm			kN		r/min		kg				
3	10	4	0.54	0.18	130000	80000	0.0015	623	623	623	623
3	10	4	0.54	0.18	-	40000	0.0015	623 DDU	623 2RS1	623 2RSR	623 DDU
3	10	4	0.54	0.18	130000	63000	0.0015	623 ZZ	623 ZZ	623 ZZ	623 ZZ
3	10	4	0.54	0.18	-	40000	0.0015	623 DU	623 RS1	623 RSR	623 DU
3	10	4	0.54	0.18	130000	80000	0.0015	623 Z	623 Z	623 Z	623 Z
4	9	2.5	0.54	0.18	140000	85000	0.0007	618/4	618/4	618/4	618/4
4	9	3.5	0.54	0.18	140000	70000	0.001	628/4 ZZ	628/4 ZZ	628/4 ZZ	628/4 ZZ
4	9	4	0.54	0.18	140000	70000	0.0013	638/4 ZZ	638/4 ZZ	638/4 ZZ	638/4 ZZ
4	11	4	0.715	0.232	130000	80000	0.0017	619/4	619/4	619/4	619/4
4	11	4	0.715	0.232	130000	63000	0.0017	619/4 ZZ	619/4 ZZ	619/4 ZZ	619/4 ZZ
4	12	4	0.806	0.28	120000	75000	0.0021	604	604	604	604
4	12	4	0.806	0.28	120000	60000	0.0021	604 ZZ	604 ZZ	604 ZZ	604 ZZ
4	12	4	0.806	0.28	120000	60000	0.0021	604 Z	604 Z	604 Z	604 Z
4	13	5	0.936	0.29	110000	67000	0.0031	624	624	624	624
4	13	5	0.936	0.29	110000	53000	0.0031	624 ZZ	624 ZZ	624 ZZ	624 ZZ
4	13	5	0.936	0.29	110000	67000	0.0031	624 Z	624 Z	624 Z	624 Z
4	16	5	1.11	0.38	95000	60000	0.0054	634	634	634	634
4	16	5	1.11	0.38	-	28000	0.0054	634 DDU	634 2RS1	634 2RSR	634 DDU
4	16	5	1.11	0.38	95000	48000	0.0054	634 ZZ	634 ZZ	634 ZZ	634 ZZ
4	16	5	1.11	0.38	-	28000	0.0054	634 DU	634 RS1	634 RSR	634 DU
4	16	5	1.11	0.38	95000	60000	0.0054	634 V	634 RZ	634 RSD	634 V
4	16	5	1.11	0.38	95000	60000	0.0054	634 Z	634 Z	634 Z	634 Z
5	11	3	0.637	0.255	120000	75000	0.0012	618/5	618/5	618/5	618/5
5	11	4	0.637	0.255	120000	60000	0.0014	628/5 ZZ	628/5 ZZ	628/5 ZZ	628/5 ZZ
5	11	5	0.637	0.255	120000	60000	0.0016	638/5 ZZ	638/5 ZZ	638/5 ZZ	638/5 ZZ
5	13	4	0.884	0.34	110000	67000	0.0025	619/5	619/5	619/5	619/5
5	13	4	0.884	0.34	110000	53000	0.0025	619/5 ZZ	619/5 ZZ	619/5 ZZ	619/5 ZZ
5	16	5	1.14	0.38	95000	60000	0.005	625	625	625	625
5	16	5	1.14	0.38	95000	48000	0.005	625 ZZ	625 ZZ	625 ZZ	625 ZZ
5	16	5	1.14	0.38	95000	60000	0.005	625 Z	625 Z	625 Z	625 Z
5	19	6	2.34	0.95	80000	50000	0.009	635	635	635	635
5	19	6	2.34	0.95	-	24000	0.009	635 DDU	635 2RS1	635 2RSR	635 DDU
5	19	6	2.34	0.95	80000	40000	0.009	635 ZZ	635 ZZ	635 ZZ	635 ZZ
5	19	6	2.34	0.95	-	24000	0.009	635 DU	635 RS1	635 RSR	635 DU
5	19	6	2.34	0.95	80000	50000	0.009	635 V	635 RZ	635 RSD	635 V
5	19	6	2.34	0.95	80000	50000	0.009	635 Z	635 Z	635 Z	635 Z
6	13	3.5	0.884	0.345	110000	67000	0.002	618/6	618/6	618/6	618/6
6	13	5	0.884	0.345	110000	53000	0.0026	628/6 ZZ	628/6 ZZ	628/6 ZZ	628/6 ZZ
6	15	5	1.24	0.475	100000	63000	0.0039	619/6	619/6	619/6	619/6
6	15	5	1.24	0.475	100000	50000	0.0039	619/6 ZZ	619/6 ZZ	619/6 ZZ	619/6 ZZ
6	19	6	2.34	0.95	80000	50000	0.0084	626	626	626	626
6	19	6	2.34	0.95	-	24000	0.0084	626 DDU	626 2RSH	626 2RSR	626 DDU
6	19	6	2.34	0.95	80000	40000	0.0084	626 VV	626 2RSL	626 2RSD	626 VV
6	19	6	2.34	0.95	80000	40000	0.0084	626 ZZ	626 ZZ	626 ZZ	626 ZZ
6	19	6	2.34	0.95	-	24000	0.0084	626 DU	626 RSH	626 RSR	626 DU
6	19	6	2.34	0.95	80000	50000	0.0084	626 V	626 RSL	626 RSD	626 V
6	19	6	2.34	0.95	80000	50000	0.0084	626 Z	626 Z	626 Z	626 Z
7	14	3.5	0.956	0.4	100000	63000	0.0022	618/7	618/7	618/7	618/7
7	14	5	0.956	0.4	100000	50000	0.0031	628/7 ZZ	628/7 ZZ	628/7 ZZ	628/7 ZZ
7	17	5	1.48	0.56	90000	56000	0.0049	619/7	619/7	619/7	619/7



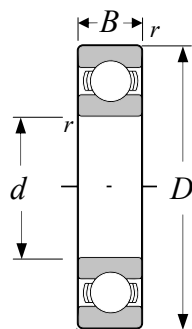
DEEP GROOVE BALL BEARINGS
Single Row

Table 2
Bore Diameter 7mm - 9mm

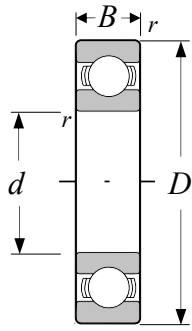
Principal Dimensions			Basic Load Ratings		Speed Ratings		Mass	Designations			
d	D	B	Dynamic C	Static C ₀	Ref. Speed	Limiting Speed		Local	SKF	FAG	NSK
mm			kN		r/min		kg				
7	17	5	1.48	0.56	90000	45000	0.0049	619/7 ZZ	619/7 ZZ	619/7 ZZ	619/7 ZZ
7	19	6	2.34	0.95	85000	53000	0.0075	607	607	607	607
7	19	6	2.34	0.95	-	24000	0.0075	607 DDU	607 2RSH	607 2RSR	607 DDU
7	19	6	2.34	0.95	85000	43000	0.0075	607 VV	607 2RSL	607 2RSD	607 VV
7	19	6	2.34	0.95	85000	43000	0.0075	607 ZZ	607 ZZ	607 ZZ	607 ZZ
7	19	6	2.34	0.95	-	24000	0.0075	607 DU	607 RSH	607 RSR	607 DU
7	19	6	2.34	0.95	85000	53000	0.0075	607 V	607 RSL	607 RSD	607 V
7	19	6	2.34	0.95	85000	53000	0.0075	607 Z	607 Z	607 Z	607 Z
7	22	7	3.45	1.37	70000	45000	0.013	627	627	627	627
7	22	7	3.45	1.37	-	22000	0.012	627 DDU	627 2RSH	627 2RSR	627 DDU
7	22	7	3.45	1.37	70000	36000	0.012	627 VV	627 2RSL	627 2RSD	627 VV
7	22	7	3.45	1.37	70000	36000	0.013	627 ZZ	627 ZZ	627 ZZ	627 ZZ
7	22	7	3.45	1.37	-	22000	0.012	627 DU	627 RSH	627 RSR	627 DU
7	22	7	3.45	1.37	70000	45000	0.012	627 V	627 RSL	627 RSD	627 V
7	22	7	3.45	1.37	70000	45000	0.013	627 Z	627 Z	627 Z	627 Z
8	16	4	1.33	0.57	90000	56000	0.003	618/8	618/8	618/8	618/8
8	16	5	1.33	0.57	-	26000	0.0036	628/8 DDU	628/8 2RS1	628/8 2RSR	628/8 DDU
8	16	5	1.33	0.57	90000	45000	0.0036	628/8 ZZ	628/8 ZZ	628/8 ZZ	628/8 ZZ
8	16	6	1.33	0.57	90000	45000	0.0043	638/8 ZZ	638/8 ZZ	638/8 ZZ	638/8 ZZ
8	19	6	2.34	0.95	85000	43000	0.0072	607/8 ZZ	607/8 ZZ	607/8 ZZ	607/8 ZZ
8	19	6	2.34	0.95	85000	53000	0.0072	607/8 Z	607/8 Z	607/8 Z	607/8 Z
8	19	6	1.9	0.735	80000	50000	0.0071	619/8	619/8	619/8	619/8
8	19	6	1.9	0.735	-	24000	0.0071	619/8 DDU	619/8 2RS1	619/8 2RSR	619/8 DDU
8	19	6	1.9	0.735	80000	40000	0.0071	619/8 ZZ	619/8 ZZ	619/8 ZZ	619/8 ZZ
8	22	7	3.45	1.37	75000	48000	0.012	608	608	608	608
8	22	7	3.45	1.37	-	22000	0.012	608 DDU	608 2RSH	608 2RSR	608 DDU
8	22	7	3.45	1.37	75000	38000	0.012	608 VV	608 2RSL	608 2RSD	608 VV
8	22	7	3.45	1.37	75000	38000	0.012	608 ZZ	608 ZZ	608 ZZ	608 ZZ
8	22	7	3.45	1.37	75000	38000	0.012	608 ZZMC3	608 ZZ/C3WT	608 ZZ/C3	608 ZZMC3
8	22	7	3.45	1.37	-	22000	0.012	608 DU	608 RSH	608 RSR	608 DU
8	22	7	3.45	1.37	75000	48000	0.012	608 V	608 RSL	608 RSD	608 V
8	22	7	3.45	1.37	75000	48000	0.012	608 Z	608 Z	608 Z	608 Z
8	22	11	3.45	1.37	-	22000	0.016	630/8 DDU	630/8 2RS1	630/8 2RSR	630/8 DDU
8	24	8	3.9	1.66	63000	40000	0.017	628	628	628	628
8	24	8	3.9	1.66	-	19000	0.017	628 DDU	628 2RS1	628 2RSR	628 DDU
8	24	8	3.9	1.66	63000	32000	0.017	628 ZZ	628 ZZ	628 ZZ	628 ZZ
8	24	8	3.9	1.66	-	19000	0.017	628 DU	628 RS1	628 RSR	628 DU
8	24	8	3.9	1.66	63000	40000	0.017	628 V	628 RZ	628 RSD	628 V
8	24	8	3.9	1.66	63000	40000	0.017	628 Z	628 Z	628 Z	628 Z
8	28	9	4.62	1.96	60000	38000	0.03	638 V	638 RZ	638 RSD	638 V
9	17	4	1.43	0.64	85000	53000	0.0034	618/9	618/9	618/9	618/9
9	17	5	1.43	0.64	-	24000	0.0043	628/9 DDU	628/9 2RS1	628/9 2RSR	628/9 DDU
9	17	5	1.43	0.64	85000	43000	0.0043	628/9 ZZ	628/9 ZZ	628/9 ZZ	628/9 ZZ
9	17	5	1.43	0.64	85000	53000	0.0043	628/9 Z	628/9 Z	628/9 Z	628/9 Z
9	20	6	2.08	0.865	80000	48000	0.0076	619/9	619/9	619/9	619/9
9	20	6	2.08	0.865	80000	38000	0.0076	619/9 ZZ	619/9 ZZ	619/9 ZZ	619/9 ZZ
9	24	7	3.9	1.66	70000	43000	0.014	609	609	609	609
9	24	7	3.9	1.66	-	19000	0.014	609 DDU	609 2RSH	609 2RSR	609 DDU
9	24	7	3.9	1.66	70000	34000	0.014	609 VV	609 2RSL	609 2RSD	609 VV
9	24	7	3.9	1.66	70000	34000	0.014	609 ZZ	609 ZZ	609 ZZ	609 ZZ

DEEP GROOVE BALL BEARINGS Single Row

Table 3
Bore Diameter 9mm - 12mm



Principal Dimensions			Basic Load Ratings		Speed Ratings		Mass	Designations			
d	D	B	Dynamic C	Static C ₀	Ref. Speed	Limiting Speed		Local	SKF	FAG	NSK
mm			kN		r/min		kg				
9	24	7	3.9	1.66	-	19000	0.014	609 DU	609 RSH	609 RSR	609 DU
9	24	7	3.9	1.66	70000	43000	0.014	609 V	609 RSL	609 RSD	609 V
9	24	7	3.9	1.66	70000	43000	0.014	609 Z	609 Z	609 Z	609 Z
9	26	8	4.75	1.96	60000	38000	0.02	629	629	629	629
9	26	8	4.75	1.96	-	19000	0.02	629 DDU	629 2RSH	629 2RSR	629 DDU
9	26	8	4.75	1.96	60000	30000	0.02	629 VV	629 2RSL	629 2RSD	629 VV
9	26	8	4.75	1.96	60000	30000	0.02	629 ZZ	629 ZZ	629 ZZ	629 ZZ
9	26	8	4.75	1.96	-	19000	0.02	629 DU	629 RSH	629 RSR	629 DU
9	26	8	4.75	1.96	60000	38000	0.02	629 V	629 RSL	629 RSD	629 V
9	26	8	4.75	1.96	60000	38000	0.02	629 Z	629 Z	629 Z	629 Z
10	19	5	1.38	0.585	80000	48000	0.0055	61800	61800	61800	61800
10	19	5	1.38	0.585	-	22000	0.0055	61800 DDU	61800 2RS1	61800 2RSR	61800 DDU
10	19	5	1.38	0.585	80000	38000	0.0055	61800 ZZ	61800 ZZ	61800 ZZ	61800 ZZ
10	22	6	2.08	0.85	75000	45000	0.01	61900	61900	61900	61900
10	22	6	2.08	0.85	-	20000	0.01	61900 DDU	61900 2RS1	61900 2RSR	61900 DDU
10	22	6	2.08	0.85	75000	36000	0.01	61900 ZZ	61900 ZZ	61900 ZZ	61900 ZZ
10	26	8	4.75	1.96	67000	40000	0.019	6000	6000	6000	6000
10	26	8	4.75	1.96	-	19000	0.019	6000 DDU	6000 2RSH	6000 2RSR	6000 DDU
10	26	8	4.75	1.96	67000	34000	0.019	6000 VV	6000 2RSL	6000 2RSD	6000 VV
10	26	8	4.75	1.96	67000	34000	0.019	6000 ZZ	6000 ZZ	6000 ZZ	6000 ZZ
10	26	8	4.75	1.96	-	19000	0.019	6000 DU	6000 RSH	6000 RSR	6000 DU
10	26	8	4.75	1.96	67000	40000	0.019	6000 V	6000 RSL	6000 RSD	6000 V
10	26	8	4.75	1.96	67000	40000	0.019	6000 Z	6000 Z	6000 Z	6000 Z
10	26	12	4.62	1.96	-	19000	0.025	63000 DDU	63000 2RS1	63000 2RSR	63000 DDU
10	28	8	4.62	1.96	63000	40000	0.022	16100	16100	16100	16100
10	28	8	4.62	1.96	63000	32000	0.022	16100 ZZ	16100 ZZ	16100 ZZ	16100 ZZ
10	30	9	5.4	2.36	56000	34000	0.032	6200	6200	6200	6200
10	30	9	5.4	2.36	-	17000	0.032	6200 DDU	6200 2RSH	6200 2RSR	6200 DDU
10	30	9	5.4	2.36	56000	28000	0.032	6200 VV	6200 2RSL	6200 2RSD	6200 VV
10	30	9	5.4	2.36	56000	28000	0.032	6200 ZZ	6200 ZZ	6200 ZZ	6200 ZZ
10	30	9	5.4	2.36	-	17000	0.032	6200 DU	6200 RSH	6200 RSR	6200 DU
10	30	9	5.4	2.36	56000	34000	0.032	6200 V	6200 RSL	6200 RSD	6200 V
10	30	9	5.4	2.36	56000	34000	0.032	6200 Z	6200 Z	6200 Z	6200 Z
10	30	14	5.07	2.36	-	17000	0.04	62200 DDU	62200 2RS1	62200 2RSR	62200 DDU
10	35	11	8.52	3.4	50000	32000	0.053	6300	6300	6300	6300
10	35	11	8.52	3.4	-	15000	0.053	6300 DDU	6300 2RSH	6300 2RSR	6300 DDU
10	35	11	8.52	3.4	50000	26000	0.053	6300 VV	6300 2RSL	6300 2RSD	6300 VV
10	35	11	8.52	3.4	50000	26000	0.053	6300 ZZ	6300 ZZ	6300 ZZ	6300 ZZ
10	35	11	8.52	3.4	-	15000	0.053	6300 DU	6300 RSH	6300 RSR	6300 DU
10	35	11	8.52	3.4	50000	32000	0.053	6300 V	6300 RSL	6300 RSD	6300 V
10	35	11	8.52	3.4	50000	32000	0.053	6300 Z	6300 Z	6300 Z	6300 Z
10	35	17	8.06	3.4	-	15000	0.06	62300 DDU	62300 2RS1	62300 2RSR	62300 DDU
12	21	5	1.43	0.67	70000	43000	0.0063	61801	61801	61801	61801
12	21	5	1.43	0.67	-	20000	0.0063	61801 DDU	61801 2RS1	61801 2RSR	61801 DDU
12	21	5	1.43	0.67	70000	36000	0.0063	61801 ZZ	61801 ZZ	61801 ZZ	61801 ZZ
12	24	6	2.25	0.98	67000	40000	0.011	61901	61901	61901	61901
12	24	6	2.25	0.98	-	19000	0.011	61901 DDU	61901 2RS1	61901 2RSR	61901 DDU
12	24	6	2.25	0.98	67000	32000	0.011	61901 ZZ	61901 ZZ	61901 ZZ	61901 ZZ
12	28	8	5.4	2.36	60000	38000	0.022	6001	6001	6001	6001
12	28	8	5.4	2.36	-	17000	0.022	6001 DDU	6001 2RSH	6001 2RSR	6001 DDU



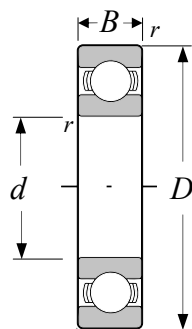
DEEP GROOVE BALL BEARINGS
Single Row

Table 4
Bore Diameter 12mm - 15mm

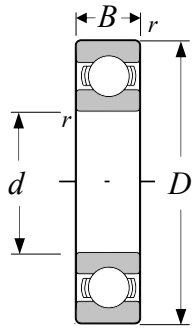
Principal Dimensions			Basic Load Ratings		Speed Ratings		Mass	Designations			
d	D	B	Dynamic C	Static C ₀	Ref. Speed	Limiting Speed		Local	SKF	FAG	NSK
mm			kN		r/min		kg				
12	28	8	5.4	2.36	60000	30000	0.022	6001 VV	6001 2RSL	6001 2RSD	6001 VV
12	28	8	5.4	2.36	60000	30000	0.022	6001 ZZ	6001 2Z	6001 2Z	6001 ZZ
12	28	8	5.4	2.36	-	17000	0.022	6001 DU	6001 RSH	6001 RSR	6001 DU
12	28	8	5.4	2.36	60000	38000	0.022	6001 V	6001 RSL	6001 RSD	6001 V
12	28	8	5.4	2.36	60000	38000	0.022	6001 Z	6001 Z	6001 Z	6001 Z
12	28	12	5.07	2.36	-	17000	0.029	63001 DDU	63001 2RS1	63001 2RSR	63001 DDU
12	30	8	5.07	2.36	56000	34000	0.023	16101	16101	16101	16101
12	30	8	5.07	2.36	-	16000	0.023	16101 DDU	16101 2RS1	16101 2RSR	16101 DDU
12	30	8	5.07	2.36	56000	28000	0.023	16101 ZZ	16101 2Z	16101 2Z	16101 ZZ
12	32	10	7.28	3.1	50000	32000	0.037	6201	6201	6201	6201
12	32	10	7.28	3.1	-	15000	0.037	6201 DDU	6201 2RSH	6201 2RSR	6201 DDU
12	32	10	7.28	3.1	50000	26000	0.037	6201 VV	6201 2RSL	6201 2RSD	6201 VV
12	32	10	7.28	3.1	50000	26000	0.037	6201 ZZ	6201 2Z	6201 2Z	6201 ZZ
12	32	10	7.28	3.1	-	15000	0.037	6201 DU	6201 RSH	6201 RSR	6201 DU
12	32	10	7.28	3.1	50000	32000	0.037	6201 V	6201 RSL	6201 RSD	6201 V
12	32	10	7.28	3.1	50000	32000	0.037	6201 Z	6201 Z	6201 Z	6201 Z
12	32	14	6.89	3.1	-	15000	0.045	62201 DDU	62201 2RS1	62201 2RSR	62201 DDU
12	37	12	10.1	4.15	45000	28000	0.06	6301	6301	6301	6301
12	37	12	10.1	4.15	-	14000	0.06	6301 DDU	6301 2RSH	6301 2RSR	6301 DDU
12	37	12	10.1	4.15	45000	22000	0.06	6301 VV	6301 2RSL	6301 2RSD	6301 VV
12	37	12	10.1	4.15	45000	22000	0.06	6301 ZZ	6301 2Z	6301 2Z	6301 ZZ
12	37	12	10.1	4.15	-	14000	0.06	6301 DU	6301 RSH	6301 RSR	6301 DU
12	37	12	10.1	4.15	45000	28000	0.06	6301 V	6301 RSL	6301 RSD	6301 V
12	37	12	10.1	4.15	45000	28000	0.06	6301 Z	6301 Z	6301 Z	6301 Z
12	37	17	9.75	4.15	-	14000	0.07	62301 DDU	62301 2RS1	62301 2RSR	62301 DDU
15	24	5	1.56	0.8	60000	38000	0.0074	61802	61802	61802	61802
15	24	5	1.56	0.8	-	17000	0.0074	61802 DDU	61802 2RS1	61802 2RSR	61802 DDU
15	24	5	1.56	0.8	60000	30000	0.0074	61802 ZZ	61802 2Z	61802 2Z	61802 ZZ
15	28	7	4.36	2.24	56000	34000	0.016	61902	61902	61902	61902
15	28	7	4.36	2.24	-	16000	0.016	61902 DDU	61902 2RS1	61902 2RSR	61902 DDU
15	28	7	4.36	2.24	56000	28000	0.016	61902 ZZ	61902 2Z	61902 2Z	61902 ZZ
15	32	8	5.85	2.85	50000	32000	0.025	16002	16002	16002	16002
15	32	8	5.85	2.85	50000	26000	0.025	16002 ZZ	16002 2Z	16002 2Z	16002 ZZ
15	32	8	5.85	2.85	50000	32000	0.025	16002 Z	16002 Z	16002 Z	16002 Z
15	32	9	5.85	2.85	50000	32000	0.03	6002	6002	6002	6002
15	32	9	5.85	2.85	-	14000	0.03	6002 DDU	6002 2RSH	6002 2RSR	6002 DDU
15	32	9	5.85	2.85	50000	26000	0.03	6002 VV	6002 2RSL	6002 2RSD	6002 VV
15	32	9	5.85	2.85	50000	26000	0.03	6002 ZZ	6002 2Z	6002 2Z	6002 ZZ
15	32	9	5.85	2.85	-	14000	0.03	6002 DU	6002 RSH	6002 RSR	6002 DU
15	32	9	5.85	2.85	50000	32000	0.03	6002 V	6002 RSL	6002 RSD	6002 V
15	32	9	5.85	2.85	50000	32000	0.03	6002 Z	6002 Z	6002 Z	6002 Z
15	32	13	5.59	2.85	-	14000	0.039	63002 DDU	63002 2RS1	63002 2RSR	63002 DDU
15	35	11	8.06	3.75	43000	28000	0.045	6202	6202	6202	6202
15	35	11	8.06	3.75	-	13000	0.045	6202 DDU	6202 2RSH	6202 2RSR	6202 DDU
15	35	11	8.06	3.75	43000	22000	0.045	6202 VV	6202 2RSL	6202 2RSD	6202 VV
15	35	11	8.06	3.75	43000	22000	0.045	6202 ZZ	6202 2Z	6202 2Z	6202 ZZ
15	35	11	8.06	3.75	-	13000	0.045	6202 DU	6202 RSH	6202 RSR	6202 DU
15	35	11	8.06	3.75	43000	28000	0.045	6202 V	6202 RSL	6202 RSD	6202 V
15	35	11	8.06	3.75	43000	28000	0.045	6202 Z	6202 Z	6202 Z	6202 Z
15	35	14	7.8	3.75	-	13000	0.054	62202 DDU	62202 2RS1	62202 2RSR	62202 DDU

DEEP GROOVE BALL BEARINGS Single Row

Table 5
Bore Diameter 15mm - 20mm



Principal Dimensions			Basic Load Ratings		Speed Ratings		Mass	Designations			
d	D	B	Dynamic C	Static C ₀	Ref. Speed	Limiting Speed		Local	SKF	FAG	NSK
mm			kN		r/min		kg				
15	42	13	11.9	5.4	38000	24000	0.082	6302	6302	6302	6302
15	42	13	11.9	5.4	-	12000	0.082	6302 DDU	6302 2RSH	6302 2RSR	6302 DDU
15	42	13	11.9	5.4	38000	19000	0.082	6302 VV	6302 2RSL	6302 2RSD	6302 VV
15	42	13	11.9	5.4	38000	19000	0.082	6302 ZZ	6302 ZZ	6302 ZZ	6302 ZZ
15	42	13	11.9	5.4	-	12000	0.082	6302 DU	6302 RSH	6302 RSR	6302 DU
15	42	13	11.9	5.4	38000	24000	0.082	6302 V	6302 RSL	6302 RSD	6302 V
15	42	13	11.9	5.4	38000	24000	0.082	6302 Z	6302 Z	6302 Z	6302 Z
15	42	17	11.4	5.4	-	12000	0.11	62302 DDU	62302 2RS1	62302 2RSR	62302 DDU
17	26	5	1.68	0.93	56000	34000	0.0082	61803	61803	61803	61803
17	26	5	1.68	0.93	-	16000	0.0082	61803 DDU	61803 2RS1	61803 2RSR	61803 DDU
17	26	5	1.68	0.93	56000	28000	0.0082	61803 ZZ	61803 ZZ	61803 ZZ	61803 ZZ
17	30	7	4.62	2.55	50000	32000	0.018	61903	61903	61903	61903
17	30	7	4.62	2.55	-	14000	0.018	61903 DDU	61903 2RS1	61903 2RSR	61903 DDU
17	30	7	4.62	2.55	50000	26000	0.018	61903 ZZ	61903 ZZ	61903 ZZ	61903 ZZ
17	35	8	6.37	3.25	45000	28000	0.032	16003	16003	16003	16003
17	35	8	6.37	3.25	45000	22000	0.032	16003 ZZ	16003 ZZ	16003 ZZ	16003 ZZ
17	35	10	6.37	3.25	45000	28000	0.039	6003	6003	6003	6003
17	35	10	6.37	3.25	-	13000	0.039	6003 DDU	6003 2RSH	6003 2RSR	6003 DDU
17	35	10	6.37	3.25	45000	22000	0.039	6003 VV	6003 2RSL	6003 2RSD	6003 VV
17	35	10	6.37	3.25	45000	22000	0.039	6003 ZZ	6003 ZZ	6003 ZZ	6003 ZZ
17	35	10	6.37	3.25	-	13000	0.039	6003 DU	6003 RSH	6003 RSR	6003 DU
17	35	10	6.37	3.25	45000	28000	0.039	6003 V	6003 RSL	6003 RSD	6003 V
17	35	10	6.37	3.25	45000	28000	0.039	6003 Z	6003 Z	6003 Z	6003 Z
17	35	14	6.05	3.25	-	13000	0.052	63003 DDU	63003 2RS1	63003 2RSR	63003 DDU
17	40	9	9.56	4.75	38000	24000	0.048	98203	98203	98203	98203
17	40	12	9.95	4.75	38000	24000	0.065	6203	6203	6203	6203
17	40	12	9.95	4.75	-	12000	0.065	6203 DDU	6203 2RSH	6203 2RSR	6203 DDU
17	40	12	9.95	4.75	38000	19000	0.065	6203 VV	6203 2RSL	6203 2RSD	6203 VV
17	40	12	9.95	4.75	38000	19000	0.065	6203 ZZ	6203 ZZ	6203 ZZ	6203 ZZ
17	40	12	9.95	4.75	-	12000	0.065	6203 DU	6203 RSH	6203 RSR	6203 DU
17	40	12	9.95	4.75	38000	24000	0.065	6203 V	6203 RSL	6203 RSD	6203 V
17	40	12	9.95	4.75	38000	24000	0.065	6203 Z	6203 Z	6203 Z	6203 Z
17	40	16	9.56	4.75	-	12000	0.083	62203 DDU	62203 2RS1	62203 2RSR	62203 DDU
17	47	14	14.3	6.55	34000	22000	0.12	6303	6303	6303	6303
17	47	14	14.3	6.55	-	11000	0.12	6303 DDU	6303 2RSH	6303 2RSR	6303 DDU
17	47	14	14.3	6.55	34000	17000	0.12	6303 VV	6303 2RSL	6303 2RSD	6303 VV
17	47	14	14.3	6.55	34000	17000	0.12	6303 ZZ	6303 ZZ	6303 ZZ	6303 ZZ
17	47	14	14.3	6.55	-	11000	0.12	6303 DU	6303 RSH	6303 RSR	6303 DU
17	47	14	14.3	6.55	34000	22000	0.12	6303 V	6303 RSL	6303 RSD	6303 V
17	47	14	14.3	6.55	34000	22000	0.12	6303 Z	6303 Z	6303 Z	6303 Z
17	47	19	13.5	6.55	-	11000	0.15	62303 DDU	62303 2RS1	62303 2RSR	62303 DDU
17	62	17	22.9	10.8	28000	18000	0.27	6403	6403	6403	6403
20	32	7	4.03	2.32	45000	28000	0.018	61804	61804	61804	61804
20	32	7	4.03	2.32	-	13000	0.018	61804 DDU	61804 2RS1	61804 2RSR	61804 DDU
20	37	9	6.37	3.65	43000	26000	0.038	61904	61904	61904	61904
20	37	9	6.37	3.65	-	12000	0.038	61904 DDU	61904 2RS1	61904 2RSR	61904 DDU
20	42	8	7.28	4.05	38000	24000	0.05	16004	16004	16004	16004
20	42	9	7.93	4.5	38000	24000	0.051	98204 M	98204 Y	98204 M	98204 M
20	42	12	9.95	5	38000	24000	0.069	6004	6004	6004	6004
20	42	12	9.95	5	-	11000	0.069	6004 DDU	6004 2RSH	6004 2RSR	6004 DDU



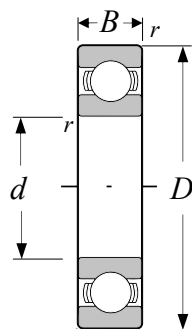
DEEP GROOVE BALL BEARINGS
Single Row

Table 6
Bore Diameter 20mm - 25mm

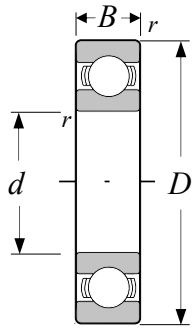
Principal Dimensions			Basic Load Ratings		Speed Ratings		Mass	Designations			
d	D	B	Dynamic C	Static C ₀	Ref. Speed	Limiting Speed		Local	SKF	FAG	NSK
mm			kN		r/min		kg				
20	42	12	9.95	5	38000	19000	0.069	6004 VV	6004 2RSL	6004 2RSD	6004 VV
20	42	12	9.95	5	38000	19000	0.069	6004 ZZ	6004 2Z	6004 2Z	6004 ZZ
20	42	12	9.95	5	-	11000	0.069	6004 DU	6004 RSH	6004 RSR	6004 DU
20	42	12	9.95	5	38000	24000	0.069	6004 V	6004 RSL	6004 RSD	6004 V
20	42	12	9.95	5	38000	24000	0.069	6004 Z	6004 Z	6004 Z	6004 Z
20	42	16	9.36	5	-	11000	0.086	63004 DDU	63004 2RS1	63004 2RSR	63004 DDU
20	47	14	13.5	6.55	32000	20000	0.11	6204	6204	6204	6204
20	47	14	13.5	6.55	-	10000	0.11	6204 DDU	6204 2RSH	6204 2RSR	6204 DDU
20	47	14	13.5	6.55	32000	17000	0.11	6204 VV	6204 2RSL	6204 2RSD	6204 VV
20	47	14	13.5	6.55	32000	17000	0.11	6204 ZZ	6204 2Z	6204 2Z	6204 ZZ
20	47	14	13.5	6.55	-	10000	0.11	6204 DU	6204 RSH	6204 RSR	6204 DU
20	47	14	13.5	6.55	32000	20000	0.11	6204 V	6204 RSL	6204 RSD	6204 V
20	47	14	13.5	6.55	32000	20000	0.11	6204 Z	6204 Z	6204 Z	6204 Z
20	47	18	12.7	6.55	-	10000	0.13	62204 DDU	62204 2RS1	62204 2RSR	62204 DDU
20	52	15	16.8	7.8	30000	19000	0.14	6304	6304	6304	6304
20	52	15	16.8	7.8	-	9500	0.14	6304 DDU	6304 2RSH	6304 2RSR	6304 DDU
20	52	15	16.8	7.8	30000	15000	0.14	6304 VV	6304 2RSL	6304 2RSD	6304 VV
20	52	15	16.8	7.8	30000	15000	0.14	6304 ZZ	6304 2Z	6304 2Z	6304 ZZ
20	52	15	16.8	7.8	-	9500	0.14	6304 DU	6304 RSH	6304 RSR	6304 DU
20	52	15	16.8	7.8	30000	19000	0.14	6304 V	6304 RSL	6304 RSD	6304 V
20	52	15	16.8	7.8	30000	19000	0.14	6304 Z	6304 Z	6304 Z	6304 Z
20	52	21	15.9	7.8	-	9500	0.2	62304 DDU	62304 2RS1	62304 2RSR	62304 DDU
20	72	19	30.7	15	24000	15000	0.4	6404	6404	6404	6404
22	50	14	14	7.65	30000	19000	0.12	62/22	62/22	62/22	62/22
22	50	14	14	7.65	-	9000	0.12	62/22 DDU	62/22 2RS1	62/22 2RSR	62/22 DDU
22	56	16	18.6	9.3	28000	18000	0.18	63/22	63/22	63/22	63/22
25	37	7	4.36	2.6	38000	24000	0.022	61805	61805	61805	61805
25	37	7	4.36	2.6	-	11000	0.022	61805 DDU	61805 2RS1	61805 2RSR	61805 DDU
25	42	9	7.02	4.3	36000	22000	0.045	61905	61905	61905	61905
25	42	9	7.02	4.3	-	10000	0.045	61905 DDU	61905 2RS1	61905 2RSR	61905 DDU
25	47	8	8.06	4.75	32000	20000	0.06	16005	16005	16005	16005
25	47	12	11.9	6.55	32000	20000	0.08	6005	6005	6005	6005
25	47	12	11.9	6.55	-	9500	0.08	6005 DDU	6005 2RSH	6005 2RSR	6005 DDU
25	47	12	11.9	6.55	32000	16000	0.08	6005 VV	6005 2RSL	6005 2RSD	6005 VV
25	47	12	11.9	6.55	32000	16000	0.08	6005 ZZ	6005 2Z	6005 2Z	6005 ZZ
25	47	12	11.9	6.55	-	9500	0.08	6005 DU	6005 RSH	6005 RSR	6005 DU
25	47	12	11.9	6.55	32000	20000	0.08	6005 V	6005 RSL	6005 RSD	6005 V
25	47	12	11.9	6.55	32000	20000	0.08	6005 Z	6005 Z	6005 Z	6005 Z
25	47	16	11.2	6.55	-	9500	0.1	63005 DDU	63005 2RS1	63005 2RSR	63005 DDU
25	52	9	10.6	6.55	28000	18000	0.078	98205	98205	98205	98205
25	52	15	14.8	7.8	28000	18000	0.13	6205	6205	6205	6205
25	52	15	14.8	7.8	-	8500	0.13	6205 DDU	6205 2RSH	6205 2RSR	6205 DDU
25	52	15	14.8	7.8	28000	14000	0.13	6205 VV	6205 2RSL	6205 2RSD	6205 VV
25	52	15	14.8	7.8	28000	14000	0.13	6205 ZZ	6205 2Z	6205 2Z	6205 ZZ
25	52	15	14.8	7.8	-	8500	0.13	6205 DU	6205 RSH	6205 RSR	6205 DU
25	52	15	14.8	7.8	28000	18000	0.13	6205 V	6205 RSL	6205 RSD	6205 V
25	52	15	14.8	7.8	28000	18000	0.13	6205 Z	6205 Z	6205 Z	6205 Z
25	52	18	14	7.8	-	8500	0.15	62205 DDU	62205 2RS1	62205 2RSR	62205 DDU
25	62	17	23.4	11.6	24000	16000	0.23	6305	6305	6305	6305
25	62	17	23.4	11.6	-	7500	0.23	6305 DDU	6305 2RS1	6305 2RSR	6305 DDU

DEEP GROOVE BALL BEARINGS Single Row

Table 7
Bore Diameter 25mm - 35mm



Principal Dimensions			Basic Load Ratings		Speed Ratings		Mass	Designations			
d	D	B	Dynamic C	Static C ₀	Ref. Speed	Limiting Speed		Local	SKF	FAG	NSK
mm			kN		r/min		kg				
25	62	17	23.4	11.6	24000	13000	0.23	6305 ZZ	6305 2Z	6305 2Z	6305 ZZ
25	62	17	23.4	11.6	-	7500	0.23	6305 DU	6305 RS1	6305 RSR	6305 DU
25	62	17	23.4	11.6	24000	16000	0.23	6305 V	6305 RZ	6305 RSD	6305 V
25	62	17	23.4	11.6	24000	16000	0.23	6305 Z	6305 Z	6305 Z	6305 Z
25	62	24	22.5	11.6	-	7500	0.32	62305 DDU	62305 2RS1	62305 2RSR	62305 DDU
25	80	21	35.8	19.3	20000	13000	0.53	6405	6405	6405	6405
28	58	16	16.8	9.5	26000	16000	0.18	62/28	62/28	62/28	62/28
28	68	18	25.1	13.7	22000	14000	0.29	63/28	63/28	63/28	63/28
30	42	7	4.49	2.9	32000	20000	0.027	61806	61806	61806	61806
30	42	7	4.49	2.9	-	9500	0.027	61806 DDU	61806 2RS1	61806 2RSR	61806 DDU
30	47	9	7.28	4.55	30000	19000	0.051	61906	61906	61906	61906
30	47	9	7.28	4.55	-	8500	0.051	61906 DDU	61906 2RS1	61906 2RSR	61906 DDU
30	55	9	11.9	7.35	28000	17000	0.085	16006	16006	16006	16006
30	55	13	13.8	8.3	28000	17000	0.12	6006	6006	6006	6006
30	55	13	13.8	8.3	-	8000	0.12	6006 DDU	6006 2RS1	6006 2RSR	6006 DDU
30	55	13	13.8	8.3	28000	14000	0.12	6006 ZZ	6006 2Z	6006 2Z	6006 ZZ
30	55	13	13.8	8.3	-	8000	0.12	6006 DU	6006 RS1	6006 RSR	6006 DU
30	55	13	13.8	8.3	28000	17000	0.12	6006 V	6006 RZ	6006 RSD	6006 V
30	55	13	13.8	8.3	28000	17000	0.12	6006 Z	6006 Z	6006 Z	6006 Z
30	55	19	13.3	8.3	-	8000	0.16	63006 DDU	63006 2RS1	63006 2RSR	63006 DDU
30	62	16	20.3	11.2	24000	15000	0.2	6206	6206	6206	6206
30	62	16	20.3	11.2	-	7500	0.2	6206 DDU	6206 2RS1	6206 2RSR	6206 DDU
30	62	16	20.3	11.2	24000	12000	0.2	6206 ZZ	6206 2Z	6206 2Z	6206 ZZ
30	62	16	20.3	11.2	-	7500	0.2	6206 DU	6206 RS1	6206 RSR	6206 DU
30	62	16	20.3	11.2	24000	15000	0.2	6206 V	6206 RZ	6206 RSD	6206 V
30	62	16	20.3	11.2	24000	15000	0.2	6206 Z	6206 Z	6206 Z	6206 Z
30	62	20	19.5	11.2	-	7500	0.24	62206 DDU	62206 2RS1	62206 2RSR	62206 DDU
30	72	19	29.6	16	20000	13000	0.35	6306	6306	6306	6306
30	72	19	29.6	16	-	6300	0.35	6306 DDU	6306 2RS1	6306 2RSR	6306 DDU
30	72	19	29.6	16	20000	11000	0.35	6306 ZZ	6306 2Z	6306 2Z	6306 ZZ
30	72	19	29.6	16	-	6300	0.35	6306 DU	6306 RS1	6306 RSR	6306 DU
30	72	19	29.6	16	20000	13000	0.35	6306 V	6306 RZ	6306 RSD	6306 V
30	72	19	29.6	16	20000	13000	0.35	6306 Z	6306 Z	6306 Z	6306 Z
30	72	27	28.1	16	-	6300	0.48	62306 DDU	62306 2RS1	62306 2RSR	62306 DDU
30	90	23	43.6	23.6	18000	11000	0.74	6406	6406	6406	6406
35	47	7	4.75	3.2	28000	18000	0.03	61807	61807	61807	61807
35	47	7	4.75	3.2	-	8000	0.03	61807 DDU	61807 2RS1	61807 2RSR	61807 DDU
35	55	10	9.56	6.8	26000	16000	0.08	61907	61907	61907	61907
35	55	10	9.56	6.8	-	7500	0.08	61907 DDU	61907 2RS1	61907 2RSR	61907 DDU
35	62	9	13	8.15	24000	15000	0.11	16007	16007	16007	16007
35	62	14	16.8	10.2	24000	15000	0.16	6007	6007	6007	6007
35	62	14	16.8	10.2	-	7000	0.16	6007 DDU	6007 2RS1	6007 2RSR	6007 DDU
35	62	14	16.8	10.2	24000	12000	0.16	6007 ZZ	6007 2Z	6007 2Z	6007 ZZ
35	62	14	16.8	10.2	-	7000	0.16	6007 DU	6007 RS1	6007 RSR	6007 DU
35	62	14	16.8	10.2	24000	15000	0.16	6007 V	6007 RZ	6007 RSD	6007 V
35	62	14	16.8	10.2	24000	15000	0.16	6007 Z	6007 Z	6007 Z	6007 Z
35	62	20	15.9	10.2	-	7000	0.21	63007 DDU	63007 2RS1	63007 2RSR	63007 DDU
35	72	17	27	15.3	20000	13000	0.29	6207	6207	6207	6207
35	72	17	27	15.3	-	6300	0.29	6207 DDU	6207 2RS1	6207 2RSR	6207 DDU
35	72	17	27	15.3	20000	10000	0.29	6207 ZZ	6207 2Z	6207 2Z	6207 ZZ



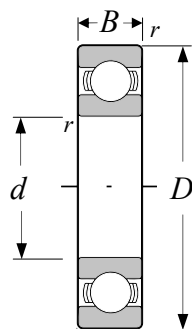
DEEP GROOVE BALL BEARINGS
Single Row

Table 8
Bore Diameter 35mm - 45mm

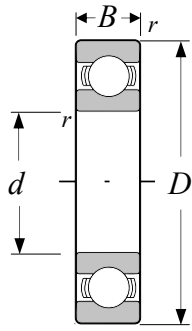
Principal Dimensions			Basic Load Ratings		Speed Ratings		Mass	Designations			
d	D	B	Dynamic C	Static C ₀	Ref. Speed	Limiting Speed		Local	SKF	FAG	NSK
mm			kN		r/min		kg				
35	72	17	27	15.3	-	6300	0.29	6207 DU	6207 RS1	6207 RSR	6207 DU
35	72	17	27	15.3	20000	13000	0.29	6207 Z	6207 Z	6207 Z	6207 Z
35	72	23	25.5	15.3	-	6300	0.37	62207 DDU	62207 2RS1	62207 2RSR	62207 DDU
35	80	21	35.1	19	19000	12000	0.46	6307	6307	6307	6307
35	80	21	35.1	19	-	6000	0.46	6307 DDU	6307 2RS1	6307 2RSR	6307 DDU
35	80	21	35.1	19	19000	9500	0.46	6307 ZZ	6307 2Z	6307 2Z	6307 ZZ
35	80	21	35.1	19	-	6000	0.46	6307 DU	6307 RS1	6307 RSR	6307 DU
35	80	21	35.1	19	19000	12000	0.46	6307 Z	6307 Z	6307 Z	6307 Z
35	80	31	33.2	19	-	6000	0.66	62307 DDU	62307 2RS1	62307 2RSR	62307 DDU
35	100	25	55.3	31	16000	10000	0.95	6407	6407	6407	6407
40	52	7	4.94	3.45	26000	16000	0.034	61808	61808	61808	61808
40	52	7	4.94	3.45	-	7500	0.034	61808 DDU	61808 2RS1	61808 2RSR	61808 DDU
40	62	12	13.8	10	24000	14000	0.12	61908	61908	61908	61908
40	62	12	13.8	10	-	6700	0.12	61908 DDU	61908 2RS1	61908 2RSR	61908 DDU
40	68	9	13.8	9.15	22000	14000	0.13	16008	16008	16008	16008
40	68	15	17.8	11.6	22000	14000	0.19	6008	6008	6008	6008
40	68	15	17.8	11.6	-	6300	0.19	6008 DDU	6008 2RS1	6008 2RSR	6008 DDU
40	68	15	17.8	11.6	22000	11000	0.19	6008 ZZ	6008 2Z	6008 2Z	6008 ZZ
40	68	15	17.8	11.6	-	6300	0.19	6008 DU	6008 RS1	6008 RSR	6008 DU
40	68	15	17.8	11.6	22000	14000	0.19	6008 V	6008 RZ	6008 RSD	6008 V
40	68	15	17.8	11.6	22000	14000	0.19	6008 Z	6008 Z	6008 Z	6008 Z
40	68	21	16.8	11.6	-	6300	0.26	63008 DDU	63008 2RS1	63008 2RSR	63008 DDU
40	80	18	32.5	19	18000	11000	0.37	6208	6208	6208	6208
40	80	18	32.5	19	-	5600	0.37	6208 DDU	6208 2RS1	6208 2RSR	6208 DDU
40	80	18	32.5	19	18000	9000	0.37	6208 ZZ	6208 2Z	6208 2Z	6208 ZZ
40	80	18	32.5	19	-	5600	0.37	6208 DU	6208 RS1	6208 RSR	6208 DU
40	80	18	32.5	19	18000	11000	0.37	6208 V	6208 RZ	6208 RSD	6208 V
40	80	18	32.5	19	18000	11000	0.37	6208 Z	6208 Z	6208 Z	6208 Z
40	80	23	30.7	19	-	5600	0.44	62208 DDU	62208 2RS1	62208 2RSR	62208 DDU
40	90	23	42.3	24	17000	11000	0.63	6308	6308	6308	6308
40	90	23	42.3	24	-	5000	0.63	6308 DDU	6308 2RS1	6308 2RSR	6308 DDU
40	90	23	42.3	24	17000	8500	0.63	6308 ZZ	6308 2Z	6308 2Z	6308 ZZ
40	90	23	42.3	24	-	5000	0.63	6308 DU	6308 RS1	6308 RSR	6308 DU
40	90	23	42.3	24	17000	11000	0.63	6308 V	6308 RZ	6308 RSD	6308 V
40	90	23	42.3	24	17000	11000	0.63	6308 Z	6308 Z	6308 Z	6308 Z
40	90	33	41	24	-	5000	0.89	62308 DDU	62308 2RS1	62308 2RSR	62308 DDU
40	110	27	63.7	36.5	14000	9000	1.25	6408	6408	6408	6408
45	58	7	6.63	6.1	22000	14000	0.04	61809	61809	61809	61809
45	58	7	6.63	6.1	-	6700	0.04	61809 DDU	61809 2RS1	61809 2RSR	61809 DDU
45	68	12	14	10.8	20000	13000	0.14	61909	61909	61909	61909
45	68	12	14	10.8	-	6000	0.14	61909 DDU	61909 2RS1	61909 2RSR	61909 DDU
45	75	10	16.5	10.8	20000	12000	0.17	16009	16009	16009	16009
45	75	16	22.1	14.6	20000	12000	0.25	6009	6009	6009	6009
45	75	16	22.1	14.6	-	5600	0.25	6009 DDU	6009 2RS1	6009 2RSR	6009 DDU
45	75	16	22.1	14.6	20000	10000	0.25	6009 ZZ	6009 2Z	6009 2Z	6009 ZZ
45	75	16	22.1	14.6	-	5600	0.25	6009 DU	6009 RS1	6009 RSR	6009 DU
45	75	16	22.1	14.6	20000	12000	0.25	6009 Z	6009 Z	6009 Z	6009 Z
45	75	23	20.8	14.6	-	5600	0.34	63009 DDU	63009 2RS1	63009 2RSR	63009 DDU
45	85	19	35.1	21.6	17000	11000	0.41	6209	6209	6209	6209
45	85	19	35.1	21.6	-	5000	0.41	6209 DDU	6209 2RS1	6209 2RSR	6209 DDU

DEEP GROOVE BALL BEARINGS Single Row

Table 9
Bore Diameter 45mm - 55mm



Principal Dimensions			Basic Load Ratings		Speed Ratings		Mass	Designations			
d	D	B	Dynamic C	Static C ₀	Ref. Speed	Limiting Speed		Local	SKF	FAG	NSK
mm			kN		r/min		kg				
45	85	19	35.1	21.6	17000	8500	0.41	6209 ZZ	6209 2Z	6209 2Z	6209 ZZ
45	85	19	35.1	21.6	-	5000	0.41	6209 DU	6209 RS1	6209 RSR	6209 DU
45	85	19	35.1	21.6	17000	11000	0.41	6209 Z	6209 Z	6209 Z	6209 Z
45	85	23	33.2	21.6	-	5000	0.48	62209 DDU	62209 2RS1	62209 2RSR	62209 DDU
45	100	25	55.3	31.5	15000	9500	0.83	6309	6309	6309	6309
45	100	25	55.3	31.5	-	4500	0.83	6309 DDU	6309 2RS1	6309 2RSR	6309 DDU
45	100	25	55.3	31.5	15000	7500	0.83	6309 ZZ	6309 2Z	6309 2Z	6309 ZZ
45	100	25	55.3	31.5	-	4500	0.83	6309 DU	6309 RS1	6309 RSR	6309 DU
45	100	25	55.3	31.5	15000	9500	0.83	6309 Z	6309 Z	6309 Z	6309 Z
45	100	36	52.7	31.5	-	4500	1.15	62309 DDU	62309 2RS1	62309 2RSR	62309 DDU
45	120	29	76.1	45	13000	8500	1.55	6409	6409	6409	6409
50	65	7	6.76	6.8	20000	13000	0.052	61810	61810	61810	61810
50	65	7	6.76	6.8	-	6000	0.052	61810 DDU	61810 2RS1	61810 2RSR	61810 DDU
50	72	12	14.6	11.8	19000	12000	0.14	61910	61910	61910	61910
50	72	12	14.6	11.8	-	5600	0.14	61910 DDU	61910 2RS1	61910 2RSR	61910 DDU
50	80	10	16.8	11.4	18000	11000	0.18	16010	16010	16010	16010
50	80	16	22.9	16	18000	11000	0.26	6010	6010	6010	6010
50	80	16	22.9	16	-	5000	0.26	6010 DDU	6010 2RS1	6010 2RSR	6010 DDU
50	80	16	22.9	16	18000	9000	0.26	6010 ZZ	6010 2Z	6010 2Z	6010 ZZ
50	80	16	22.9	16	-	5000	0.26	6010 DU	6010 RS1	6010 RSR	6010 DU
50	80	16	22.9	16	18000	11000	0.26	6010 V	6010 RZ	6010 RSD	6010 V
50	80	16	22.9	16	18000	11000	0.26	6010 Z	6010 Z	6010 Z	6010 Z
50	80	23	21.6	16	-	5000	0.37	63010 DDU	63010 2RS1	63010 2RSR	63010 DDU
50	90	20	37.1	23.2	15000	10000	0.46	6210	6210	6210	6210
50	90	20	37.1	23.2	-	4800	0.46	6210 DDU	6210 2RS1	6210 2RSR	6210 DDU
50	90	20	37.1	23.2	15000	8000	0.46	6210 ZZ	6210 2Z	6210 2Z	6210 ZZ
50	90	20	37.1	23.2	-	4800	0.46	6210 DU	6210 RS1	6210 RSR	6210 DU
50	90	20	37.1	23.2	15000	10000	0.46	6210 V	6210 RZ	6210 RSD	6210 V
50	90	20	37.1	23.2	15000	10000	0.46	6210 Z	6210 Z	6210 Z	6210 Z
50	90	23	35.1	23.2	-	4800	0.52	62210 DDU	62210 2RS1	62210 2RSR	62210 DDU
50	110	27	65	38	13000	8500	1.05	6310	6310	6310	6310
50	110	27	65	38	-	4300	1.05	6310 DDU	6310 2RS1	6310 2RSR	6310 DDU
50	110	27	65	38	13000	6700	1.05	6310 ZZ	6310 2Z	6310 2Z	6310 ZZ
50	110	27	65	38	-	4300	1.05	6310 DU	6310 RS1	6310 RSR	6310 DU
50	110	27	65	38	13000	8500	1.05	6310 Z	6310 Z	6310 Z	6310 Z
50	110	40	61.8	38	-	4300	1.55	62310 DDU	62310 2RS1	62310 2RSR	62310 DDU
50	130	31	87.1	52	12000	7500	1.9	6410	6410	6410	6410
55	72	9	9.04	8.8	19000	12000	0.083	61811	61811	61811	61811
55	72	9	9.04	8.8	-	5300	0.083	61811 DDU	61811 2RS1	61811 2RSR	61811 DDU
55	80	13	16.5	14	17000	11000	0.19	61911	61911	61911	61911
55	80	13	16.5	14	-	5000	0.19	61911 DDU	61911 2RS1	61911 2RSR	61911 DDU
55	90	11	20.3	14	16000	10000	0.26	16011	16011	16011	16011
55	90	18	29.6	21.2	16000	10000	0.39	6011	6011	6011	6011
55	90	18	29.6	21.2	-	4500	0.39	6011 DDU	6011 2RS1	6011 2RSR	6011 DDU
55	90	18	29.6	21.2	16000	8000	0.39	6011 ZZ	6011 2Z	6011 2Z	6011 ZZ
55	90	18	29.6	21.2	-	4500	0.39	6011 DU	6011 RS1	6011 RSR	6011 DU
55	90	18	29.6	21.2	16000	10000	0.39	6011 Z	6011 Z	6011 Z	6011 Z
55	100	21	46.2	29	14000	9000	0.61	6211	6211	6211	6211
55	100	21	46.2	29	-	4300	0.61	6211 DDU	6211 2RS1	6211 2RSR	6211 DDU
55	100	21	46.2	29	14000	7000	0.61	6211 ZZ	6211 2Z	6211 2Z	6211 ZZ



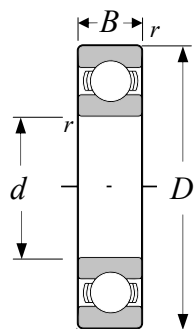
DEEP GROOVE BALL BEARINGS
Single Row

Table 10
Bore Diameter 55mm - 65mm

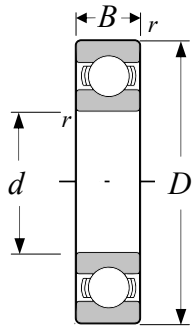
Principal Dimensions			Basic Load Ratings		Speed Ratings		Mass	Designations			
d	D	B	Dynamic C	Static C ₀	Ref. Speed	Limiting Speed		Local	SKF	FAG	NSK
mm			kN		r/min		kg				
55	100	21	46.2	29	-	4300	0.61	6211 DU	6211 RS1	6211 RSR	6211 DU
55	100	21	46.2	29	14000	9000	0.61	6211 Z	6211 Z	6211 Z	6211 Z
55	100	25	43.6	29	-	4300	0.7	62211 DDU	62211 2RS1	62211 2RSR	62211 DDU
55	120	29	74.1	45	12000	8000	1.35	6311	6311	6311	6311
55	120	29	74.1	45	-	3800	1.35	6311 DDU	6311 2RS1	6311 2RSR	6311 DDU
55	120	29	74.1	45	12000	6300	1.35	6311 ZZ	6311 2Z	6311 2Z	6311 ZZ
55	120	29	74.1	45	-	3800	1.35	6311 DU	6311 RS1	6311 RSR	6311 DU
55	120	29	74.1	45	12000	8000	1.35	6311 Z	6311 Z	6311 Z	6311 Z
55	120	43	71.5	45	-	3800	1.95	62311 DDU	62311 2RS1	62311 2RSR	62311 DDU
55	140	33	99.5	62	11000	7000	2.3	6411	6411	6411	6411
60	78	10	11.9	11.4	17000	11000	0.11	61812	61812	61812	61812
60	78	10	11.9	11.4	-	4800	0.11	61812 DDU	61812 2RS1	61812 2RSR	61812 DDU
60	85	13	16.5	14.3	16000	10000	0.2	61912	61912	61912	61912
60	85	13	16.5	14.3	-	4500	0.2	61912 DDU	61912 2RS1	61912 2RSR	61912 DDU
60	95	11	20.8	15	15000	9500	0.28	16012	16012	16012	16012
60	95	18	30.7	23.2	15000	9500	0.42	6012	6012	6012	6012
60	95	18	30.7	23.2	-	4300	0.42	6012 DDU	6012 2RS1	6012 2RSR	6012 DDU
60	95	18	30.7	23.2	15000	7500	0.42	6012 ZZ	6012 2Z	6012 2Z	6012 ZZ
60	95	18	30.7	23.2	-	4300	0.42	6012 DU	6012 RS1	6012 RSR	6012 DU
60	95	18	30.7	23.2	15000	9500	0.42	6012 V	6012 RZ	6012 RSD	6012 V
60	95	18	30.7	23.2	15000	9500	0.42	6012 Z	6012 Z	6012 Z	6012 Z
60	110	22	55.3	36	13000	8000	0.78	6212	6212	6212	6212
60	110	22	55.3	36	-	4000	0.78	6212 DDU	6212 2RS1	6212 2RSR	6212 DDU
60	110	22	55.3	36	13000	6300	0.78	6212 ZZ	6212 2Z	6212 2Z	6212 ZZ
60	110	22	55.3	36	-	4000	0.78	6212 DU	6212 RS1	6212 RSR	6212 DU
60	110	22	55.3	36	13000	8000	0.78	6212 Z	6212 Z	6212 Z	6212 Z
60	110	28	52.7	36	-	4000	0.97	62212 DDU	62212 2RS1	62212 2RSR	62212 DDU
60	130	31	85.2	52	11000	7000	1.7	6312	6312	6312	6312
60	130	31	85.2	52	-	3400	1.7	6312 DDU	6312 2RS1	6312 2RSR	6312 DDU
60	130	31	85.2	52	11000	5600	1.7	6312 ZZ	6312 2Z	6312 2Z	6312 ZZ
60	130	31	85.2	52	-	3400	1.7	6312 DU	6312 RS1	6312 RSR	6312 DU
60	130	31	85.2	52	11000	7000	1.7	6312 Z	6312 Z	6312 Z	6312 Z
60	130	46	81.9	52	-	3400	2.5	62312 DDU	62312 2RS1	62312 2RSR	62312 DDU
60	150	35	108	69.5	10000	6300	2.75	6412	6412	6412	6412
65	85	10	12.4	12.7	16000	10000	0.13	61813	61813	61813	61813
65	85	10	12.4	12.7	-	4500	0.13	61813 DDU	61813 2RS1	61813 2RSR	61813 DDU
65	90	13	17.4	16	15000	9500	0.22	61913	61913	61913	61913
65	90	13	17.4	16	-	4300	0.22	61913 DDU	61913 2RS1	61913 2RSR	61913 DDU
65	100	11	22.5	16.6	14000	9000	0.3	16013	16013	16013	16013
65	100	18	31.9	25	14000	9000	0.44	6013	6013	6013	6013
65	100	18	31.9	25	-	4000	0.44	6013 DDU	6013 2RS1	6013 2RSR	6013 DDU
65	100	18	31.9	25	14000	7000	0.44	6013 ZZ	6013 2Z	6013 2Z	6013 ZZ
65	100	18	31.9	25	-	4000	0.44	6013 DU	6013 RS1	6013 RSR	6013 DU
65	100	18	31.9	25	14000	9000	0.44	6013 Z	6013 Z	6013 Z	6013 Z
65	120	23	58.5	40.5	12000	7500	0.99	6213	6213	6213	6213
65	120	23	58.5	40.5	-	3600	0.99	6213 DDU	6213 2RS1	6213 2RSR	6213 DDU
65	120	23	58.5	40.5	12000	6000	0.99	6213 ZZ	6213 2Z	6213 2Z	6213 ZZ
65	120	23	58.5	40.5	-	3600	0.99	6213 DU	6213 RS1	6213 RSR	6213 DU
65	120	23	58.5	40.5	12000	7500	0.99	6213 Z	6213 Z	6213 Z	6213 Z
65	120	31	55.9	40.5	-	3600	1.25	62213 DDU	62213 2RS1	62213 2RSR	62213 DDU

DEEP GROOVE BALL BEARINGS
Single Row

Table 11
Bore Diameter 65mm - 75mm



Principal Dimensions			Basic Load Ratings		Speed Ratings		Mass	Designations			
d	D	B	C	C ₀	Ref. Speed	Limiting Speed		Local	SKF	FAG	NSK
mm			kN		r/min		kg				
65	140	33	97.5	60	10000	6700	2.1	6313	6313	6313	6313
65	140	33	97.5	60	-	3200	2.1	6313 DDU	6313 2RS1	6313 2RSR	6313 DDU
65	140	33	97.5	60	10000	5300	2.1	6313 ZZ	6313 2Z	6313 2Z	6313 ZZ
65	140	33	97.5	60	-	3200	2.1	6313 DU	6313 RS1	6313 RSR	6313 DU
65	140	33	97.5	60	10000	6700	2.1	6313 Z	6313 Z	6313 Z	6313 Z
65	140	48	92.3	60	-	3200	3	62313 DDU	62313 2RS1	62313 2RSR	62313 DDU
65	160	37	119	78	9500	6000	3.3	6413	6413	6413	6413
70	90	10	12.4	13.2	15000	9000	0.14	61814	61814	61814	61814
70	90	10	12.4	13.2	-	4300	0.14	61814 DDU	61814 2RS1	61814 2RSR	61814 DDU
70	100	16	23.8	21.2	14000	8500	0.35	61914	61914	61914	61914
70	100	16	23.8	21.2	-	4000	0.35	61914 DDU	61914 2RS1	61914 2RSR	61914 DDU
70	110	13	29.1	25	13000	8000	0.43	16014	16014	16014	16014
70	110	20	39.7	31	13000	8000	0.6	6014	6014	6014	6014
70	110	20	39.7	31	-	3600	0.6	6014 DDU	6014 2RS1	6014 2RSR	6014 DDU
70	110	20	39.7	31	13000	6300	0.6	6014 ZZ	6014 2Z	6014 2Z	6014 ZZ
70	110	20	39.7	31	-	3600	0.6	6014 DU	6014 RS1	6014 RSR	6014 DU
70	110	20	39.7	31	13000	8000	0.6	6014 Z	6014 Z	6014 Z	6014 Z
70	125	24	63.7	45	11000	7000	1.05	6214	6214	6214	6214
70	125	24	63.7	45	-	3400	1.1	6214 DDU	6214 2RS1	6214 2RSR	6214 DDU
70	125	24	63.7	45	11000	5600	1.1	6214 ZZ	6214 2Z	6214 2Z	6214 ZZ
70	125	24	63.7	45	-	3400	1.1	6214 DU	6214 RS1	6214 RSR	6214 DU
70	125	24	63.7	45	11000	7000	1.1	6214 Z	6214 Z	6214 Z	6214 Z
70	125	31	60.5	45	-	3400	1.3	62214 DDU	62214 2RS1	62214 2RSR	62214 DDU
70	150	35	111	68	9500	6300	2.5	6314	6314	6314	6314
70	150	35	111	68	-	3000	2.5	6314 DDU	6314 2RS1	6314 2RSR	6314 DDU
70	150	35	111	68	9500	5000	2.5	6314 ZZ	6314 2Z	6314 2Z	6314 ZZ
70	150	35	111	68	-	3000	2.5	6314 DU	6314 RS1	6314 RSR	6314 DU
70	150	35	111	68	9500	6300	2.5	6314 Z	6314 Z	6314 Z	6314 Z
70	150	51	104	68	-	3000	3.55	62314 DDU	62314 2RS1	62314 2RSR	62314 DDU
70	180	42	143	104	8500	5300	4.85	6414	6414	6414	6414
75	95	10	12.7	14.3	14000	8500	0.15	61815	61815	61815	61815
75	95	10	12.7	14.3	-	4000	0.15	61815 DDU	61815 2RS1	61815 2RSR	61815 DDU
75	105	16	24.2	19.3	13000	8000	0.37	61915	61915	61915	61915
75	105	16	24.2	19.3	-	3600	0.37	61915 DDU	61915 2RS1	61915 2RSR	61915 DDU
75	110	12	28.6	27	13000	8000	0.38	16115	16115	16115	16115
75	115	13	30.2	27	12000	7500	0.46	16015	16015	16015	16015
75	115	20	41.6	33.5	12000	7500	0.64	6015	6015	6015	6015
75	115	20	41.6	33.5	-	3400	0.64	6015 DDU	6015 2RS1	6015 2RSR	6015 DDU
75	115	20	41.6	33.5	12000	6000	0.64	6015 ZZ	6015 2Z	6015 2Z	6015 ZZ
75	115	20	41.6	33.5	-	3400	0.64	6015 DU	6015 RS1	6015 RSR	6015 DU
75	115	20	41.6	33.5	12000	7500	0.64	6015 V	6015 RZ	6015 RSD	6015 V
75	115	20	41.6	33.5	12000	7500	0.64	6015 Z	6015 Z	6015 Z	6015 Z
75	130	25	68.9	49	10000	6700	1.2	6215	6215	6215	6215
75	130	25	68.9	49	-	3200	1.2	6215 DDU	6215 2RS1	6215 2RSR	6215 DDU
75	130	25	68.9	49	10000	5300	1.2	6215 ZZ	6215 2Z	6215 2Z	6215 ZZ
75	130	25	68.9	49	-	3200	1.2	6215 DU	6215 RS1	6215 RSR	6215 DU
75	130	25	68.9	49	10000	6700	1.2	6215 Z	6215 Z	6215 Z	6215 Z
75	160	37	119	76.5	9000	5600	3	6315	6315	6315	6315
75	160	37	119	76.5	-	2800	3	6315 DDU	6315 2RS1	6315 2RSR	6315 DDU
75	160	37	119	76.5	9000	4500	3	6315 ZZ	6315 2Z	6315 2Z	6315 ZZ



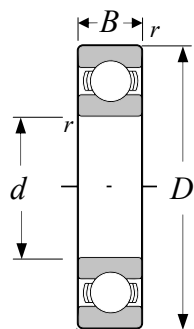
DEEP GROOVE BALL BEARINGS
Single Row

Table 12
Bore Diameter 75mm - 90mm

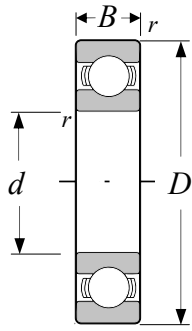
Principal Dimensions			Basic Load Ratings		Speed Ratings		Mass	Designations			
d	D	B	Dynamic C	Static C ₀	Ref. Speed	Limiting Speed		Local	SKF	FAG	NSK
mm			kN		r/min		kg				
75	160	37	119	76.5	-	2800	3	6315 DU	6315 RS1	6315 RSR	6315 DU
75	160	37	119	76.5	9000	5600	3	6315 Z	6315 Z	6315 Z	6315 Z
75	190	45	153	114	8000	5000	6.8	6415	6415	6415	6415
80	100	10	13	15	13000	8000	0.15	61816	61816	61816	61816
80	100	10	13	15	-	3600	0.15	61816 DDU	61816 2RS1	61816 2RSR	61816 DDU
80	110	16	25.1	20.4	12000	7500	0.4	61916	61916	61916	61916
80	110	16	25.1	20.4	-	3400	0.4	61916 DDU	61916 2RS1	61916 2RSR	61916 DDU
80	125	14	35.1	31.5	11000	7000	0.6	16016	16016	16016	16016
80	125	22	49.4	40	11000	7000	0.85	6016	6016	6016	6016
80	125	22	49.4	40	-	3200	0.85	6016 DDU	6016 2RS1	6016 2RSR	6016 DDU
80	125	22	49.4	40	11000	5600	0.85	6016 ZZ	6016 2Z	6016 2Z	6016 ZZ
80	125	22	49.4	40	-	3200	0.85	6016 DU	6016 RS1	6016 RSR	6016 DU
80	125	22	49.4	40	11000	7000	0.85	6016 Z	6016 Z	6016 Z	6016 Z
80	140	26	72.8	55	9500	6000	1.4	6216	6216	6216	6216
80	140	26	72.8	55	-	3000	1.4	6216 DDU	6216 2RS1	6216 2RSR	6216 DDU
80	140	26	72.8	55	9500	4800	1.4	6216 ZZ	6216 2Z	6216 2Z	6216 ZZ
80	140	26	72.8	55	-	3000	1.4	6216 DU	6216 RS1	6216 RSR	6216 DU
80	140	26	72.8	55	9500	6000	1.4	6216 Z	6216 Z	6216 Z	6216 Z
80	170	39	130	86.5	8500	5300	3.6	6316	6316	6316	6316
80	170	39	130	86.5	-	2600	3.6	6316 DDU	6316 2RS1	6316 2RSR	6316 DDU
80	170	39	130	86.5	8500	4300	3.6	6316 ZZ	6316 2Z	6316 2Z	6316 ZZ
80	170	39	130	86.5	-	2600	3.6	6316 DU	6316 RS1	6316 RSR	6316 DU
80	170	39	130	86.5	8500	5300	3.6	6316 Z	6316 Z	6316 Z	6316 Z
80	200	48	163	125	7500	4800	8	6416	6416	6416	6416
85	110	13	19.5	20.8	12000	7500	0.27	61817	61817	61817	61817
85	110	13	19.5	20.8	-	3400	0.27	61817 DDU	61817 2RS1	61817 2RSR	61817 DDU
85	120	18	31.9	30	11000	7000	0.55	61917	61917	61917	61917
85	130	14	35.8	33.5	11000	6700	0.63	16017	16017	16017	16017
85	130	22	52	43	11000	6700	0.89	6017	6017	6017	6017
85	130	22	52	43	-	3000	0.89	6017 DDU	6017 2RS1	6017 2RSR	6017 DDU
85	130	22	52	43	11000	5300	0.89	6017 ZZ	6017 2Z	6017 2Z	6017 ZZ
85	130	22	52	43	-	3000	0.89	6017 DU	6017 RS1	6017 RSR	6017 DU
85	130	22	52	43	11000	6700	0.89	6017 Z	6017 Z	6017 Z	6017 Z
85	150	28	87.1	64	9000	5600	1.8	6217	6217	6217	6217
85	150	28	87.1	64	-	2800	1.8	6217 DDU	6217 2RS1	6217 2RSR	6217 DDU
85	150	28	87.1	64	9000	4500	1.8	6217 ZZ	6217 2Z	6217 2Z	6217 ZZ
85	150	28	87.1	64	-	2800	1.8	6217 DU	6217 RS1	6217 RSR	6217 DU
85	150	28	87.1	64	9000	5600	1.8	6217 Z	6217 Z	6217 Z	6217 Z
85	180	41	140	96.5	8000	5000	4.25	6317	6317	6317	6317
85	180	41	140	96.5	-	2400	4.25	6317 DDU	6317 2RS1	6317 2RSR	6317 DDU
85	180	41	140	96.5	8000	4000	4.25	6317 ZZ	6317 2Z	6317 2Z	6317 ZZ
85	180	41	140	96.5	-	2400	4.25	6317 DU	6317 RS1	6317 RSR	6317 DU
85	180	41	140	96.5	8000	5000	4.25	6317 Z	6317 Z	6317 Z	6317 Z
85	210	52	174	137	7000	4500	9.5	6417	6417	6417	6417
90	115	13	19.5	22	11000	7000	0.28	61818	61818	61818	61818
90	115	13	19.5	22	-	3200	0.28	61818 DDU	61818 2RS1	61818 2RSR	61818 DDU
90	125	18	33.2	31.5	11000	6700	0.59	61918	61918	61918	61918
90	140	16	43.6	39	10000	6300	0.85	16018	16018	16018	16018
90	140	24	60.5	50	10000	6300	1.15	6018	6018	6018	6018
90	140	24	60.5	50	-	2800	1.15	6018 DDU	6018 2RS1	6018 2RSR	6018 DDU

DEEP GROOVE BALL BEARINGS Single Row

Table 13
Bore Diameter 90mm - 100mm



Principal Dimensions			Basic Load Ratings		Speed Ratings		Mass	Designations			
d	D	B	Dynamic C	Static C ₀	Ref. Speed	Limiting Speed		Local	SKF	FAG	NSK
mm			kN		r/min		kg				
90	140	24	60.5	50	10000	5000	1.15	6018 ZZ	6018 2Z	6018 2Z	6018 ZZ
90	140	24	60.5	50	-	2800	1.15	6018 DU	6018 RS1	6018 RSR	6018 DU
90	140	24	60.5	50	10000	6300	1.15	6018 Z	6018 Z	6018 Z	6018 Z
90	160	30	101	73.5	8500	5300	2.15	6218	6218	6218	6218
90	160	30	101	73.5	-	2600	2.15	6218 DDU	6218 2RS1	6218 2RSR	6218 DDU
90	160	30	101	73.5	8500	4300	2.15	6218 ZZ	6218 2Z	6218 2Z	6218 ZZ
90	160	30	101	73.5	-	2600	2.15	6218 DU	6218 RS1	6218 RSR	6218 DU
90	160	30	101	73.5	8500	5300	2.15	6218 Z	6218 Z	6218 Z	6218 Z
90	190	43	151	108	7500	4800	4.9	6318	6318	6318	6318
90	190	43	151	108	-	2400	4.9	6318 DDU	6318 2RS1	6318 2RSR	6318 DDU
90	190	43	151	108	7500	3800	4.9	6318 ZZ	6318 2Z	6318 2Z	6318 ZZ
90	190	43	151	108	-	2400	4.9	6318 DU	6318 RS1	6318 RSR	6318 DU
90	190	43	151	108	7500	4800	4.9	6318 Z	6318 Z	6318 Z	6318 Z
90	225	54	186	150	6700	4300	11.5	6418	6418	6418	6418
95	120	13	19.9	22.8	11000	6700	0.3	61819	61819	61819	61819
95	120	13	19.9	22.8	-	3000	0.3	61819 DDU	61819 2RS1	61819 2RSR	61819 DDU
95	130	18	33.8	33.5	10000	6300	0.61	61919	61919	61919	61919
95	130	18	33.8	33.5	-	3000	0.61	61919 DDU	61919 2RS1	61919 2RSR	61919 DDU
95	145	16	44.8	41.5	9500	6000	0.89	6019	6019	6019	6019
95	145	24	63.7	54	9500	6000	1.2	6019	6019	6019	6019
95	145	24	63.7	54	-	2800	1.2	6019 DDU	6019 2RS1	6019 2RSR	6019 DDU
95	145	24	63.7	54	9500	4800	1.2	6019 ZZ	6019 2Z	6019 2Z	6019 ZZ
95	145	24	63.7	54	-	2800	1.2	6019 DU	6019 RS1	6019 RSR	6019 DU
95	145	24	63.7	54	9500	6000	1.2	6019 Z	6019 Z	6019 Z	6019 Z
95	170	32	114	81.5	8000	5000	2.6	6219	6219	6219	6219
95	170	32	114	81.5	-	2400	2.6	6219 DDU	6219 2RS1	6219 2RSR	6219 DDU
95	170	32	114	81.5	8000	4000	2.6	6219 ZZ	6219 2Z	6219 2Z	6219 ZZ
95	170	32	114	81.5	-	2400	2.6	6219 DU	6219 RS1	6219 RSR	6219 DU
95	170	32	114	81.5	8000	5000	2.6	6219 Z	6219 Z	6219 Z	6219 Z
95	200	45	159	118	7000	4500	5.65	6319	6319	6319	6319
95	200	45	159	118	-	2200	5.65	6319 DDU	6319 2RS1	6319 2RSR	6319 DDU
95	200	45	159	118	7000	3600	5.65	6319 ZZ	6319 2Z	6319 2Z	6319 ZZ
95	200	45	159	118	-	2200	5.65	6319 DU	6319 RS1	6319 RSR	6319 DU
95	200	45	159	118	7000	4500	5.65	6319 Z	6319 Z	6319 Z	6319 Z
100	125	13	19.9	24	10000	6300	0.31	61820	61820	61820	61820
100	125	13	19.9	24	-	3000	0.31	61820 DDU	61820 2RS1	61820 2RSR	61820 DDU
100	140	20	42.3	41	9500	6000	0.83	61920	61920	61920	61920
100	150	16	46.2	44	9500	5600	0.91	16020	16020	16020	16020
100	150	24	63.7	54	9500	5600	1.25	6020	6020	6020	6020
100	150	24	63.7	54	-	2600	1.25	6020 DDU	6020 2RS1	6020 2RSR	6020 DDU
100	150	24	63.7	54	9500	4500	1.25	6020 ZZ	6020 2Z	6020 2Z	6020 ZZ
100	150	24	63.7	54	-	2600	1.25	6020 DU	6020 RS1	6020 RSR	6020 DU
100	150	24	63.7	54	9500	5600	1.25	6020 Z	6020 Z	6020 Z	6020 Z
100	180	34	127	93	7500	4800	3.15	6220	6220	6220	6220
100	180	34	127	93	-	2400	3.15	6220 DDU	6220 2RS1	6220 2RSR	6220 DDU
100	180	34	127	93	7500	3800	3.15	6220 ZZ	6220 2Z	6220 2Z	6220 ZZ
100	180	34	127	93	-	2400	3.15	6220 DU	6220 RS1	6220 RSR	6220 DU
100	180	34	127	93	7500	4800	3.15	6220 Z	6220 Z	6220 Z	6220 Z
100	215	47	174	140	6700	4300	7	6320	6320	6320	6320
100	215	47	174	140	6700	3400	7	6320 ZZ	6320 2Z	6320 2Z	6320 ZZ



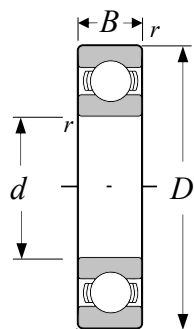
DEEP GROOVE BALL BEARINGS
Single Row

Table 14
Bore Diameter 100mm - 130mm

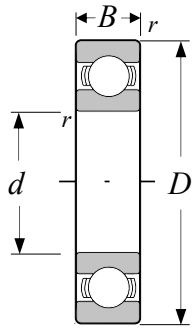
Principal Dimensions			Basic Load Ratings		Speed Ratings		Mass	Designations			
d	D	B	Dynamic C	Static C ₀	Ref. Speed	Limiting Speed		Local	SKF	FAG	NSK
mm			kN		r/min		kg				
100	215	47	174	140	6700	4300	7	6320 Z	6320 Z	6320 Z	6320 Z
105	130	13	20.8	19.6	10000	6300	0.32	61821	61821	61821	61821
105	130	13	20.8	19.6	-	2800	0.32	61821 DDU	61821 2RS1	61821 2RSR	61821 DDU
105	145	20	44.2	44	9500	5600	0.87	61921	61921	61921	61921
105	160	18	54	51	8500	5300	1.2	16021	16021	16021	16021
105	160	26	76.1	65.5	8500	5300	1.6	6021	6021	6021	6021
105	160	26	76.1	65.5	-	2400	1.6	6021 DDU	6021 2RS1	6021 2RSR	6021 DDU
105	160	26	76.1	65.5	8500	4300	1.6	6021 ZZ	6021 ZZ	6021 ZZ	6021 ZZ
105	160	26	76.1	65.5	-	2400	1.6	6021 DU	6021 RS1	6021 RSR	6021 DU
105	160	26	76.1	65.5	8500	5300	1.6	6021 Z	6021 Z	6021 Z	6021 Z
105	190	36	140	104	7000	4500	3.7	6221	6221	6221	6221
105	190	36	140	104	-	2200	3.7	6221 DDU	6221 2RS1	6221 2RSR	6221 DDU
105	190	36	140	104	7000	3600	3.7	6221 ZZ	6221 ZZ	6221 ZZ	6221 ZZ
105	190	36	140	104	-	2200	3.7	6221 DU	6221 RS1	6221 RSR	6221 DU
105	190	36	140	104	7000	4500	3.7	6221 Z	6221 Z	6221 Z	6221 Z
105	225	49	182	153	6300	4000	8.25	6321	6321	6321	6321
105	225	49	182	153	6300	3200	8.25	6321 ZZ	6321 ZZ	6321 ZZ	6321 ZZ
105	225	49	182	153	6300	4000	8.25	6321 Z	6321 Z	6321 Z	6321 Z
110	140	16	28.1	26	9500	5600	0.6	61822	61822	61822	61822
110	140	16	28.1	26	-	2600	0.6	61822 DDU	61822 2RS1	61822 2RSR	61822 DDU
110	150	20	43.6	45	9000	5600	0.9	61922	61922	61922	61922
110	170	19	60.2	57	8000	5000	1.45	16022	16022	16022	16022
110	170	28	85.2	73.5	8000	5000	1.95	6022	6022	6022	6022
110	170	28	85.2	73.5	-	2400	1.95	6022 DDU	6022 2RS1	6022 2RSR	6022 DDU
110	170	28	85.2	73.5	8000	4000	1.95	6022 ZZ	6022 ZZ	6022 ZZ	6022 ZZ
110	170	28	85.2	73.5	-	2400	1.95	6022 DU	6022 RS1	6022 RSR	6022 DU
110	170	28	85.2	73.5	8000	5000	1.95	6022 Z	6022 Z	6022 Z	6022 Z
110	200	38	151	118	6700	4300	4.35	6222	6222	6222	6222
110	200	38	151	118	6700	3400	4.35	6222 ZZ	6222 ZZ	6222 ZZ	6222 ZZ
110	200	38	151	118	6700	4300	4.35	6222 Z	6222 Z	6222 Z	6222 Z
110	240	50	203	180	6000	3800	9.55	6322	6322	6322	6322
120	150	16	29.1	28	8500	5300	0.65	61824	61824	61824	61824
120	150	16	29.1	28	-	2400	0.65	61824 DDU	61824 2RS1	61824 2RSR	61824 DDU
120	165	22	55.3	57	8000	5000	1.2	61924	61924	61924	61924
120	180	19	63.7	64	7500	4800	1.6	16024	16024	16024	16024
120	180	28	88.4	80	7500	4800	2.05	6024	6024	6024	6024
120	180	28	88.4	80	-	2200	2.05	6024 DDU	6024 2RS1	6024 2RSR	6024 DDU
120	180	28	88.4	80	7500	3800	2.05	6024 ZZ	6024 ZZ	6024 ZZ	6024 ZZ
120	180	28	88.4	80	-	2200	2.05	6024 DU	6024 RS1	6024 RSR	6024 DU
120	180	28	88.4	80	7500	4800	2.05	6024 Z	6024 Z	6024 Z	6024 Z
120	215	40	146	118	6300	4000	5.15	6224	6224	6224	6224
120	215	40	146	118	6300	3200	5.15	6224 ZZ	6224 ZZ	6224 ZZ	6224 ZZ
120	215	40	146	118	6300	4000	5.15	6224 Z	6224 Z	6224 Z	6224 Z
120	260	55	208	186	5600	3400	12.5	6324	6324	6324	6324
130	165	18	37.7	43	8000	4800	0.93	61826	61826	61826	61826
130	165	18	37.7	43	-	2200	0.93	61826 DDU	61826 2RS1	61826 2RSR	61826 DDU
130	180	24	65	67	7500	4500	1.85	61926	61926	61926	61926
130	200	22	83.2	81.5	7000	4300	2.35	16026	16026	16026	16026
130	200	33	112	100	7000	4300	3.15	6026	6026	6026	6026
130	200	33	112	100	-	2000	3.15	6026 DDU	6026 2RS1	6026 2RSR	6026 DDU

DEEP GROOVE BALL BEARINGS
Single Row

Table 15
Bore Diameter 130mm - 180mm



Principal Dimensions			Basic Load Ratings		Speed Ratings		Mass	Designations			
d	D	B	Dynamic C	Static C ₀	Ref. Speed	Limiting Speed		Local	SKF	FAG	NSK
mm			kN		r/min		kg				
130	200	33	112	100	7000	3400	3.15	6026 ZZ	6026 2Z	6026 2Z	6026 ZZ
130	200	33	112	100	-	2000	3.15	6026 DU	6026 RS1	6026 RSR	6026 DU
130	200	33	112	100	7000	4300	3.15	6026 Z	6026 Z	6026 Z	6026 Z
130	230	40	156	132	5600	3600	5.8	6226	6226	6226	6226
130	230	40	156	132	5600	3000	5.8	6226 ZZ	6226 2Z	6226 2Z	6226 ZZ
130	230	40	156	132	5600	3600	5.8	6226 Z	6226 Z	6226 Z	6226 Z
130	280	58	229	216	5000	4500	17.5	6326 M	6326 M	6326 M	6326 M
140	175	18	39	46.5	7500	4500	0.99	61828	61828	61828	61828
140	175	18	39	46.5	-	2000	0.99	61828 DDU	61828 2RS1	61828 2RSR	61828 DDU
140	190	24	66.3	72	7000	5600	1.7	61928 M	61928 MA	61928 M	61928 M
140	210	22	80.6	86.5	6700	4000	2.5	16028	16028	16028	16028
140	210	33	111	108	6700	4000	3.35	6028	6028	6028	6028
140	210	33	111	108	-	1800	3.35	6028 DDU	6028 2RS1	6028 2RSR	6028 DDU
140	210	33	111	108	6700	3200	3.35	6028 ZZ	6028 2Z	6028 2Z	6028 ZZ
140	210	33	111	108	-	1800	3.35	6028 DU	6028 RS1	6028 RSR	6028 DU
140	210	33	111	108	6700	4000	3.35	6028 Z	6028 Z	6028 Z	6028 Z
140	250	42	165	150	5300	3400	7.45	6228	6228	6228	6228
140	300	62	251	245	4800	4300	22	6328 M	6328 M	6328 M	6328 M
150	190	20	48.8	61	6700	4300	1.4	61830	61830	61830	61830
150	210	28	88.4	93	6300	5300	3.05	61930 M	61930 MA	61930 M	61930 M
150	225	24	92.2	98	6000	3800	3.15	16030	16030	16030	16030
150	225	35	125	125	6000	3800	4.8	6030	6030	6030	6030
150	225	35	125	125	-	1700	4.8	6030 DDU	6030 2RS1	6030 2RSR	6030 DDU
150	225	35	125	125	6000	3000	4.8	6030 ZZ	6030 2Z	6030 2Z	6030 ZZ
150	225	35	125	125	-	1700	4.8	6030 DU	6030 RS1	6030 RSR	6030 DU
150	225	35	125	125	6000	3800	4.8	6030 Z	6030 Z	6030 Z	6030 Z
150	270	45	174	166	5000	3200	9.4	6230	6230	6230	6230
150	320	65	276	285	4300	4000	26	6330 M	6330 M	6330 M	6330 M
160	200	20	49.4	64	6300	4000	1.45	61832	61832	61832	61832
160	220	28	92.3	98	6000	5000	3.25	61932 M	61932 MA	61932 M	61932 M
160	240	25	99.5	108	5600	3600	3.7	16032	16032	16032	16032
160	240	38	143	143	5600	3600	5.9	6032	6032	6032	6032
160	240	38	143	143	5600	4800	5.9	6032 M	6032 M	6032 M	6032 M
160	240	38	143	143	-	1600	5.9	6032 DDU	6032 2RS1	6032 2RSR	6032 DDU
160	240	38	143	143	5600	2800	5.9	6032 ZZ	6032 2Z	6032 2Z	6032 ZZ
160	240	38	143	143	-	1600	5.9	6032 DU	6032 RS1	6032 RSR	6032 DU
160	240	38	143	143	5600	3600	5.9	6032 Z	6032 Z	6032 Z	6032 Z
160	290	48	186	186	4500	3000	14.5	6232	6232	6232	6232
160	340	68	276	285	4000	3800	29	6332 M	6332 M	6332 M	6332 M
170	215	22	61.8	78	6000	3600	1.9	61834	61834	61834	61834
170	230	28	93.6	106	5600	4800	3.4	61934 M	61934 MA	61934 M	61934 M
170	260	28	119	129	5300	3200	5	16034	16034	16034	16034
170	260	42	168	173	5300	4300	7.9	6034 M	6034 M	6034 M	6034 M
170	310	52	212	224	4300	3800	17.5	6234 M	6234 M	6234 M	6234 M
170	360	72	312	340	3800	3400	34.5	6334 M	6334 M	6334 M	6334 M
180	225	22	62.4	81.5	5600	3400	2	61836	61836	61836	61836
180	250	33	119	134	5300	4300	5.05	61936 M	61936 MA	61936 M	61936 M
180	280	31	138	146	4800	4000	6.6	16036	16036	16036	16036
180	280	46	190	200	4800	4000	10.5	6036 M	6036 M	6036 M	6036 M
180	320	52	229	240	4000	3600	18.5	6236 M	6236 M	6236 M	6236 M



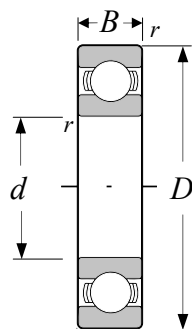
DEEP GROOVE BALL BEARINGS
Single Row

Table 16
Bore Diameter 180mm - 340mm

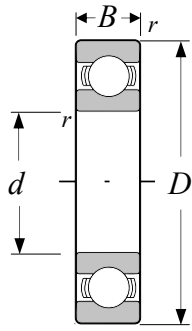
Principal Dimensions			Basic Load Ratings		Speed Ratings		Mass	Designations			
d	D	B	Dynamic C	Static C ₀	Ref. Speed	Limiting Speed		Local	SKF	FAG	NSK
mm			kN		r/min		kg				
180	380	75	351	405	3600	3200	42.5	6336 M	6336 M	6336 M	6336 M
190	240	24	76.1	98	5300	3200	2.6	61838	61838	61838	61838
190	260	33	117	134	5000	4300	5.25	61938 M	61938 MA	61938 M	61938 M
190	290	31	148	166	4800	3000	7.9	16038	16038	16038	16038
190	290	46	195	216	4800	3800	11	6038 M	6038 M	6038 M	6038 M
190	340	55	255	280	3800	3400	23	6238 M	6238 M	6238 M	6238 M
190	400	78	371	430	3400	3000	49	6338 M	6338 M	6338 M	6338 M
200	250	24	76.1	102	5000	3200	2.7	61840	61840	61840	61840
200	280	38	148	166	4800	3800	7.4	61940 M	61940 MA	61940 M	61940 M
200	310	34	168	190	4300	2800	8.85	16040	16040	16040	16040
200	310	51	216	245	4300	3600	14	6040 M	6040 M	6040 M	6040 M
200	360	58	270	310	3600	3200	28	6240 M	6240 M	6240 M	6240 M
220	270	24	78	110	4500	2800	3	61844	61844	61844	61844
220	300	38	151	180	4300	3600	8	61944 M	61944 MA	61944 M	61944 M
220	340	37	174	204	4000	2400	11.5	16044	16044	16044	16044
220	340	56	247	290	4000	3200	18.5	6044 M	6044 M	6044 M	6044 M
220	400	65	296	365	3200	3000	37	6244 M	6244 M	6244 M	6244 M
220	460	88	410	520	3000	2600	72.5	6344 M	6344 M	6344 M	6344 M
240	300	28	108	150	4000	2600	4.5	61848	61848	61848	61848
240	320	38	159	200	4000	3200	8.6	61948 M	61948 MA	61948 M	61948 M
240	360	37	178	220	3600	3000	14.5	16048 M	16048 MA	16048 M	16048 M
240	360	56	255	315	3600	3000	19.5	6048 M	6048 M	6048 M	6048 M
240	440	72	358	465	3000	2600	51	6248 M	6248 M	6248 M	6248 M
240	500	95	442	585	2600	2400	92.5	6348 M	6348 M	6348 M	6348 M
260	320	28	111	163	3800	2400	4.8	61852	61852	61852	61852
260	360	46	212	270	3600	3000	14.5	61952 M	61952 MA	61952 M	61952 M
260	400	44	238	310	3200	2800	21.5	16052 M	16052 MA	16052 M	16052 M
260	400	65	291	375	3200	2800	29.5	6052 M	6052 M	6052 M	6052 M
260	480	80	390	530	2600	2400	65.5	6252 M	6252 M	6252 M	6252 M
260	540	102	507	710	2400	2200	115	6352 M	6352 M	6352 M	6352 M
280	350	33	138	200	3400	2200	7.4	61856	61856	61856	61856
280	350	33	138	200	3400	2800	8	61856 M	61856 MA	61856 M	61856 M
280	380	46	216	285	3200	2800	15	61956 M	61956 MA	61956 M	61956 M
280	420	44	242	335	3000	2600	23	16056 M	16056 MA	16056 M	16056 M
280	420	65	302	405	3000	2600	31	6056 M	6056 M	6056 M	6056 M
280	500	80	423	600	2600	2200	71	6256 M	6256 M	6256 M	6256 M
280	580	108	572	850	2200	2000	140	6356 M	6356 M	6356 M	6356 M
300	380	38	172	245	3200	2600	10.5	61860 M	61860 MA	61860 M	61860 M
300	420	56	270	375	3000	2400	24.5	61960 M	61960 MA	61960 M	61960 M
300	460	50	286	405	2800	2400	32	16060 M	16060 MA	16060 M	16060 M
300	460	74	358	500	2800	2400	44	6060 M	6060 M	6060 M	6060 M
300	540	85	462	670	2400	2000	88.5	6260 M	6260 M	6260 M	6260 M
320	400	38	172	255	3000	2400	11	61864 M	61864 MA	61864 M	61864 M
320	440	37	216	310	2800	2400	16	60964 M	60964 MA	60964 M	60964 M
320	440	56	276	400	2800	2400	25.5	61964 M	61964 MA	61964 M	61964 M
320	480	50	281	405	2600	2200	34	16064 M	16064 MA	16064 M	16064 M
320	480	74	371	540	2600	2200	46	6064 M	6064 M	6064 M	6064 M
320	580	92	527	800	2200	1900	110	6264 M	6264 MA	6264 M	6264 M
340	420	38	178	275	2800	2400	11.5	61868 M	61868 MA	61868 M	61868 M
340	460	56	281	425	2600	2200	26.5	61968 M	61968 MA	61968 M	61968 M

DEEP GROOVE BALL BEARINGS
Single Row

Table 17
Bore Diameter 340mm - 630mm



Principal Dimensions			Basic Load Ratings		Speed Ratings		Mass	Designations			
d	D	B	Dynamic C	Static C ₀	Ref. Speed	Limiting Speed		Local	SKF	FAG	NSK
mm			kN		r/min		kg				
340	520	57	345	520	2400	2000	45	16068 M	16068 MA	16068 M	16068 M
340	520	82	423	640	2400	2200	62	6068 M	6068 M	6068 M	6068 M
340	620	92	559	900	2000	1800	110	6268 M	6268 MA	6268 M	6268 M
360	440	25	121	212	2600	2200	6.5	60872 M	60872 MA	60872 M	60872 M
360	440	38	182	285	2600	2200	12	61872 M	61872 MA	61872 M	61872 M
360	480	56	291	450	2600	2200	28	61972 M	61972 MA	61972 M	61972 M
360	540	57	351	550	2400	1900	49	16072 M	16072 MA	16072 M	16072 M
360	540	82	462	735	2400	1900	64.5	6072 M	6072 M	6072 M	6072 M
380	480	46	242	390	2400	2000	20	61876 M	61876 MA	61876 M	61876 M
380	520	65	338	540	2400	1900	40	61976 M	61976 MA	61976 M	61976 M
380	560	57	377	620	2200	1800	51	16076 M	16076 MA	16076 M	16076 M
380	560	82	462	750	2200	1800	67.5	6076 M	6076 M	6076 M	6076 M
400	500	31	163	280	2400	1900	15.5	60880 M	60880 MA	60880 M	60880 M
400	500	46	247	405	2400	1900	20.5	61880 M	61880 MA	61880 M	61880 M
400	540	44	265	440	2200	1800	27.5	60980 M	60980 M	60980 M	60980 M
400	540	65	345	570	2200	1800	41.5	61980 M	61980 MA	61980 M	61980 M
400	600	90	520	865	2000	1700	87.5	6080 M	6080 M	6080 M	6080 M
420	520	46	251	425	2200	1800	21.5	61884 M	61884 MA	61884 M	61884 M
420	560	65	351	600	2200	1800	43	61984 M	61984 MA	61984 M	61984 M
420	620	90	507	880	2000	1600	91.5	6084 M	6084 M	6084 M	6084 M
440	540	31	159	290	2200	1800	16.5	60888 M	60888 MA	60888 M	60888 M
440	540	46	255	440	2200	1800	22.5	61888 M	61888 MA	61888 M	61888 M
440	600	50	312	550	2000	1600	40	60988 M	60988 MB	60988 M	60988 M
440	600	74	410	720	2000	1600	60.5	61988 M	61988 MA	61988 M	61988 M
440	650	94	553	965	1900	1500	105	6088 M	6088 M	6088 M	6088 M
460	580	56	319	570	2000	1600	35	61892 M	61892 MA	61892 M	61892 M
460	620	74	423	750	1900	1600	62.5	61992 M	61992 MA	61992 M	61992 M
460	680	100	582	1060	1800	1500	120	6092 M	6092 MB	6092 M	6092 M
460	680	100	582	1060	1800	1500	120	6092 M	6092 N1MB	6092 M	6092 M
480	600	56	325	600	1900	1600	36.5	61896 M	61896 MA	61896 M	61896 M
480	650	78	449	815	1800	1500	74	61996 M	61996 MA	61996 M	61996 M
480	700	100	618	1140	1700	1400	125	6096 M	6096 MB	6096 M	6096 M
480	700	100	618	1140	1700	1400	125	6096 M	6096 N1MB	6096 M	6096 M
500	620	37	229	440	1800	1500	20	608/500 M	608/500 MA	608/500 M	608/500 M
500	620	56	332	620	1800	1500	40.5	618/500 M	618/500 MA	618/500 M	618/500 M
500	670	78	462	865	1700	1400	77	619/500 M	619/500 MA	619/500 M	619/500 M
500	720	100	605	1140	1600	1300	135	60/500 M	60/500 N1MAS	60/500 M	60/500 M
530	650	56	332	655	1700	1400	39.5	618/530 M	618/530 MA	618/530 M	618/530 M
530	710	57	423	815	1600	1300	61	609/530 M	609/530 MA	609/530 M	609/530 M
530	710	82	488	930	1600	1300	90.5	619/530 M	619/530 MA	619/530 M	619/530 M
530	780	112	650	1270	1500	1200	185	60/530 M	60/530 N1MAS	60/530 M	60/530 M
560	680	37	229	465	1600	1300	30.5	608/560 M	608/560 MA	608/560 M	608/560 M
560	680	56	345	695	1600	1300	42	618/560 M	618/560 MA	618/560 M	618/560 M
560	750	85	494	980	1500	1200	105	619/560 M	619/560 MA	619/560 M	619/560 M
560	820	115	663	1470	1400	1200	210	60/560 M	60/560 N1MAS	60/560 M	60/560 M
600	730	42	265	550	1500	1200	40	608/600 M	608/600 MA	608/600 M	608/600 M
600	730	60	364	765	1500	1200	52	618/600 M	618/600 MA	618/600 M	618/600 M
600	800	90	585	1220	1400	1100	125	619/600 M	619/600 MA	619/600 M	619/600 M
600	870	118	728	1500	1300	1100	230	60/600 M	60/600 MA	60/600 M	60/600 M
630	780	48	364	765	1400	1100	41	608/630 M	608/630 MA	608/630 M	608/630 M



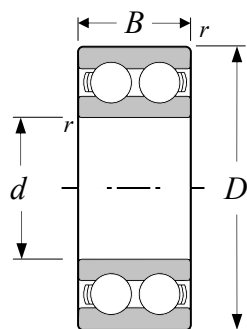
DEEP GROOVE BALL BEARINGS
Single Row

Table 18
Bore Diameter 630mm - 1700mm

Principal Dimensions			Basic Load Ratings		Speed Ratings		Mass	Designations			
d	D	B	C	C ₀	Ref. Speed	Limiting Speed		Local	SKF	FAG	NSK
mm			kN		r/min		kg				
630	780	69	442	965	1400	1100	73	618/630 M	618/630 MA	618/630 M	618/630 M
630	850	71	488	1060	1300	1100	110	609/630 M	609/630 MB	609/630 M	609/630 M
630	850	100	624	1340	1300	1100	160	619/630 M	619/630 N1MA	619/630 M	619/630 M
630	920	128	819	1760	1200	1000	285	60/630 M	60/630 N1MBS	60/630 M	60/630 M
670	820	69	442	1000	1300	1100	83.5	618/670 M	618/670 MA	618/670 M	618/670 M
670	900	73	553	1220	1200	1000	145	609/670 M	609/670 MA	609/670 M	609/670 M
670	900	103	676	1500	1200	1000	185	619/670 M	619/670 MA	619/670 M	619/670 M
670	980	136	904	2040	1100	900	345	60/670 M	60/670 N1MAS	60/670 M	60/670 M
710	870	74	475	1100	1200	1000	93.5	618/710 M	618/710 MA	618/710 M	618/710 M
710	950	78	559	1290	1100	900	150	609/710 M	609/710 MA	609/710 M	609/710 M
710	950	106	663	1500	1100	900	220	619/710 M	619/710 MA	619/710 M	619/710 M
710	1030	140	956	2200	1000	850	375	60/710 M	60/710 MA	60/710 M	60/710 M
750	920	78	527	1250	1100	900	110	618/750 M	618/750 MA	618/750 M	618/750 M
750	1000	112	761	1800	1000	850	255	619/750 M	619/750 MA	619/750 M	619/750 M
750	1090	150	995	2360	950	800	485	60/750 M	60/750 MA	60/750 M	60/750 M
800	980	57	403	1000	1000	850	100	608/800 M	608/800 MA	608/800 M	608/800 M
800	980	82	559	1370	1000	850	130	618/800 M	618/800 MA	618/800 M	618/800 M
800	1060	115	832	2040	950	800	275	619/800 M	619/800 MA	619/800 M	619/800 M
800	1150	155	1010	2550	900	750	535	60/800 M	60/800 N1MAS	60/800 M	60/800 M
850	1030	57	397	1020	950	750	75	608/850 M	608/850 MB	608/850 M	608/850 M
850	1030	82	559	1430	950	750	140	618/850 M	618/850 MA	618/850 M	618/850 M
850	1120	118	832	2160	850	750	310	619/850 M	619/850 MA	619/850 M	619/850 M
850	1220	165	1120	2900	800	670	630	60/850 M	60/850 MB	60/850 M	60/850 M
900	1090	85	618	1600	850	700	160	618/900 M	618/900 MA	618/900 M	618/900 M
900	1180	122	852	2280	800	670	350	619/900 M	619/900 MB	619/900 M	619/900 M
900	1280	170	1140	3100	750	630	720	60/900 M	60/900 MB	60/900 M	60/900 M
950	1150	90	637	1730	800	670	190	618/950 M	618/950 MA	618/950 M	618/950 M
950	1250	132	1010	2800	750	630	390	619/950 M	619/950 MB	619/950 M	619/950 M
950	1360	180	1170	3250	700	560	860	60/950 M	60/950 MB	60/950 M	60/950 M
1000	1220	71	553	1560	750	600	175	608/1000 M	608/1000 MB	608/1000 M	608/1000 M
1000	1220	100	637	1800	750	600	245	618/1000 M	618/1000 MA	618/1000 M	618/1000 M
1000	1320	103	819	2360	700	560	410	609/1000 M	609/1000 MB	609/1000 M	609/1000 M
1000	1320	140	1010	2800	700	560	515	619/1000 M	619/1000 MB	619/1000 M	619/1000 M
1000	1420	185	1350	3900	630	530	930	60/1000 M	60/1000 MB	60/1000 M	60/1000 M
1060	1280	100	728	2120	670	560	260	618/1060 M	618/1060 MA	618/1060 M	618/1060 M
1060	1400	150	1010	3000	630	530	620	619/1060 M	619/1060 MB	619/1060 M	619/1060 M
1060	1500	195	1350	3900	600	500	1080	60/1060 M	60/1060 MB	60/1060 M	60/1060 M
1120	1360	106	741	2200	630	530	315	618/1120 M	618/1120 MA	618/1120 M	618/1120 M
1120	1460	150	1040	3100	600	480	650	619/1120 M	619/1120 MB	619/1120 M	619/1120 M
1120	1580	200	1460	4400	530	450	1250	60/1120 M	60/1120 MB	60/1120 M	60/1120 M
1180	1420	106	761	2360	560	480	330	618/1180 M	618/1180 MB	618/1180 M	618/1180 M
1180	1540	160	1140	3600	220	280	775	619/1180 M	619/1180 MB	619/1180 M	619/1180 M
1250	1500	112	852	2750	530	430	385	618/1250 M	618/1250 MB	618/1250 M	618/1250 M
1320	1600	122	956	3150	480	400	500	618/1320 M	618/1320 MA	618/1320 M	618/1320 M
1320	1720	128	1210	4050	450	360	830	609/1320 M	609/1320 MB	609/1320 M	609/1320 M
1400	1700	132	1120	4000	430	360	615	618/1400 M	618/1400 MA	618/1400 M	618/1400 M
1400	1820	185	1590	5500	400	340	1250	619/1400 M	619/1400 MB	619/1400 M	619/1400 M
1500	1950	195	1720	6100	380	320	1500	619/1500 M	619/1500 MB	619/1500 M	619/1500 M
1600	1950	155	1270	4800	320	280	965	618/1600 M	618/1600 MB	618/1600 M	618/1600 M
1600	2060	200	1860	6950	300	260	1650	619/1600 M	619/1600 MB	619/1600 M	619/1600 M
1700	2060	160	1270	4900	300	240	1100	618/1700 M	618/1700 MB	618/1700 M	618/1700 M
1700	2180	212	1990	7650	280	220	1950	619/1700 M	619/1700 MB	619/1700 M	619/1700 M

DEEP GROOVE BALL BEARINGS
Double Row

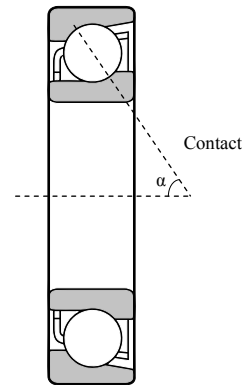
Table 19
Bore Diameter 10mm - 100mm



Principal Dimensions			Basic Load Ratings		Speed Ratings		Mass	Designations			
d	D	B	Dynamic	Static	Ref. Speed	Limiting Speed		Local	SKF	FAG	NSK
mm			C	C ₀	r/min						
10	30	14	9.23	5.2	40000	22000	0.049	4200 BTNG	4200 ATN9	4200 B.TVH	4200 BTNG
12	32	14	10.6	6.2	36000	20000	0.053	4201 BTNG	4201 ATN9	4201 B.TVH	4201 BTNG
12	37	17	13	7.8	34000	18000	0.092	4301 BTNG	4301 ATN9	4301 B.TVH	4301 BTNG
15	35	14	11.9	7.5	32000	17000	0.059	4202 BTNG	4202 ATN9	4202 B.TVH	4202 BTNG
15	42	17	14.8	9.5	28000	15000	0.12	4302 BTNG	4302 ATN9	4302 B.TVH	4302 BTNG
17	40	16	14.8	9.5	28000	15000	0.09	4203 BTNG	4203 ATN9	4203 B.TVH	4203 BTNG
17	47	19	19.5	13.2	24000	13000	0.16	4303 BTNG	4303 ATN9	4303 B.TVH	4303 BTNG
20	47	18	17.8	12.5	24000	13000	0.14	4204 BTNG	4204 ATN9	4204 B.TVH	4204 BTNG
20	52	21	23.4	16	22000	12000	0.21	4304 BTNG	4304 ATN9	4304 B.TVH	4304 BTNG
25	52	18	19	14.6	20000	11000	0.16	4205 BTNG	4205 ATN9	4205 B.TVH	4205 BTNG
25	62	24	31.9	22.4	18000	10000	0.34	4305 BTNG	4305 ATN9	4305 B.TVH	4305 BTNG
30	62	20	26	20.8	17000	9500	0.26	4206 BTNG	4206 ATN9	4206 B.TVH	4206 BTNG
30	72	27	41	30	16000	8500	0.5	4306 BTNG	4306 ATN9	4306 B.TVH	4306 BTNG
35	72	23	35.1	28.5	15000	8000	0.4	4207 BTNG	4207 ATN9	4207 B.TVH	4207 BTNG
35	80	31	50.7	38	14000	7500	0.69	4307 BTNG	4307 ATN9	4307 B.TVH	4307 BTNG
40	80	23	37.1	32.5	13000	7000	0.5	4208 BTNG	4208 ATN9	4208 B.TVH	4208 BTNG
40	90	33	55.9	45	12000	6700	0.95	4308 BTNG	4308 ATN9	4308 B.TVH	4308 BTNG
45	85	23	39	36	12000	6700	0.54	4209 BTNG	4209 ATN9	4209 B.TVH	4209 BTNG
45	100	36	68.9	56	11000	6000	1.25	4309 BTNG	4309 ATN9	4309 B.TVH	4309 BTNG
50	90	23	41	40	11000	6000	0.58	4210 BTNG	4210 ATN9	4210 B.TVH	4210 BTNG
50	110	40	81.9	69.5	10000	5300	1.7	4310 BTNG	4310 ATN9	4310 B.TVH	4310 BTNG
55	100	25	44.9	44	10000	5600	0.8	4211 BTNG	4211 ATN9	4211 B.TVH	4211 BTNG
55	120	43	97.5	83	9000	5000	2.15	4311 BTNG	4311 ATN9	4311 B.TVH	4311 BTNG
60	110	28	57.2	55	9500	5300	1.1	4212 BTNG	4212 ATN9	4212 B.TVH	4212 BTNG
60	130	46	112	98	8500	4500	2.65	4312 BTNG	4312 ATN9	4312 B.TVH	4312 BTNG
65	120	31	67.6	67	8500	4800	1.45	4213 BTNG	4213 ATN9	4213 B.TVH	4213 BTNG
65	140	48	121	106	8000	4300	3.25	4313 BTNG	4313 ATN9	4313 B.TVH	4313 BTNG
70	125	31	70.2	73.5	8000	4300	1.5	4214 BTNG	4214 ATN9	4214 B.TVH	4214 BTNG
70	150	51	138	125	7000	3800	3.95	4314 BTNG	4314 ATN9	4314 B.TVH	4314 BTNG
75	130	31	72.8	80	7500	4000	1.6	4215 BTNG	4215 ATN9	4215 B.TVH	4215 BTNG
75	160	55	156	143	6700	3600	4.8	4315 BTNG	4315 ATN9	4315 B.TVH	4315 BTNG
80	140	33	80.6	90	7000	3800	2	4216 BTNG	4216 ATN9	4216 B.TVH	4216 BTNG
85	150	36	93.6	102	7000	3600	2.55	4217 BTNG	4217 ATN9	4217 B.TVH	4217 BTNG
90	160	40	112	122	6300	3400	3.2	4218 BTNG	4218 ATN9	4218 B.TVH	4218 BTNG
100	180	46	140	156	5600	3000	4.7	4220 BTNG	4220 ATN9	4220 B.TVH	4220 BTNG

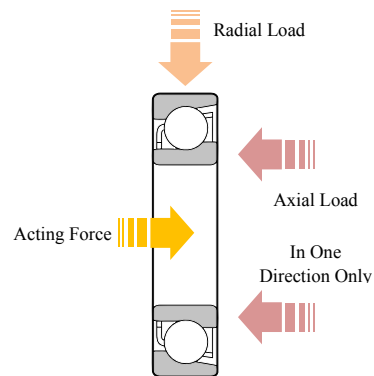
ANGULAR CONTACT BALL BEARINGS

The raceway between the inner and outer ring of an angular contact ball bearing has certain offset angle in the direction of the bearing axis. It attributes that it is designed to carry combined loads. The combined loads are the simultaneously acting radial and axial loads. The offset angle between the raceway of inner and outer rings creates a contact angle, the greater contact angle creates greater axial loads carrying capacity. The contact angle (α) is defined as the angle between the ball and the raceways at the radial plane. The angle of ball and raceways draw a line which perpendicular to the bearing axis, where the load is transmitted from one raceway to another along the line. Angular contact ball bearings are available in few different configurations, i.e. single row, double row, and four point contact ball bearings.



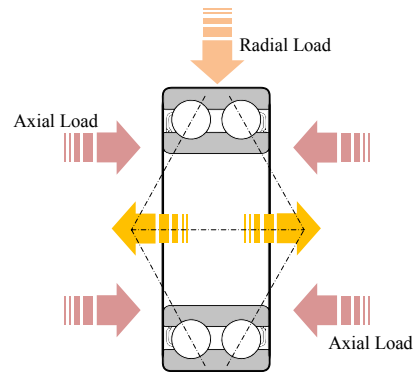
Single Row Angular Contact Ball Bearing

Single row angular contact ball bearings are design to accommodate acting axial loads in one direction only. An acting force in axial direction will be produced when the bearing is under radial loads, and this axial acting force must be balanced by a counter force. Due to this, single row angular contact ball bearings are normally fitted or paired against another bearing. The most common contact angle is a 40° , others larger contact angle are available such as 25° and 30° .



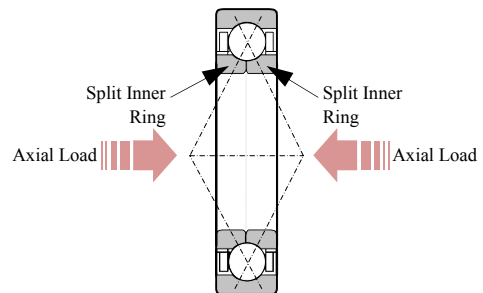
Double Row Angular Contact Ball Bearings

Double row angular contact ball bearings are basically a combination or back to back mounting of 2 pieces of single row angular contact ball bearings. This combination of bearings, double row angular contact ball bearings can accommodate radial loads, and axial loads acting in both directions.



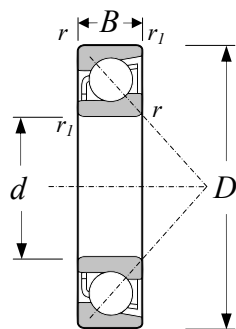
Four Point Contact Ball Bearings

Four point contact ball bearings have their inner rings split in to 2 pieces with a contact angle of normally 35° . Its' split inner rings enable a large number of balls to be integrated in the bearing and creating higher load carrying capacity. This design has overcome the shortage of single row angular contact bearings; they support axial loads acting in both directions. Another advantage of four point contact ball bearings is it takes up considerably less axial space than double row angular contact ball bearings.

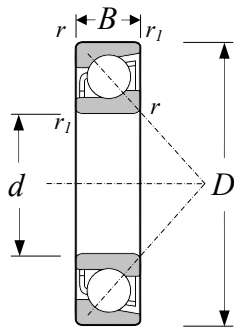


ANGULAR CONTACT BALL BEARINGS Single Row

Table 20
Bore Diameter 10mm - 25mm



Principal Dimensions			Basic Load Ratings		Speed Ratings		Mass	Designations			
d	D	B	Dynamic	Static	Ref. Speed	Limiting Speed		Local	SKF	FAG	NSK
mm			C	C ₀	r/min						
10	30	9	7.02	3.35	30000	30000	0.03	7200 BT	7200 BECBP	7200 B.TVP.UA	7200 BT
10	30	9	7.02	3.35	30000	30000	0.03	7200 BT	7200 BEP	7200 B.TVP	7200 BT
12	32	10	7.61	3.8	26000	26000	0.036	7201 BT	7201 BECBP	7201 B.TVP.UA	7201 BT
12	32	10	7.61	3.8	26000	26000	0.036	7201 BT	7201 BEGAP	7201 B.TVP.UA	7201 BT
12	32	10	7.61	3.8	26000	26000	0.036	7201 BT	7201 BEP	7201 B.TVP	7201 BT
12	37	12	10.6	5	24000	24000	0.063	7301 BT	7301 BEP	7301 B.TVP	7301 BT
15	35	11	9.5	5.1	26000	26000	0.045	7202 BT	7202 BECBP	7202 B.TVP.UA	7202 BT
15	35	11	9.5	5.1	26000	26000	0.045	7202 BT	7202 BEGAP	7202 B.TVP.UA	7202 BT
15	35	11	9.5	5.1	26000	26000	0.045	7202 BT	7202 BEGBP	7202 B.JP.UA	7202 BT
15	35	11	8.84	4.8	24000	24000	0.045	7202 BT	7202 BEP	7202 B.TVP	7202 BT
15	42	13	13	6.7	20000	20000	0.081	7302 BT	7302 BECBP	7302 B.TVP.UA	7302 BT
15	42	13	13	6.7	20000	20000	0.081	7302 BT	7302 BEP	7302 B.TVP	7302 BT
17	40	12	11	5.85	22000	22000	0.07	7203 BM	7203 BECBM	7203 B.MP.UA	7203 BM
17	40	12	11	5.85	22000	22000	0.064	7203 BT	7203 BECBP	7203 B.TVP.UA	7203 BT
17	40	12	11	5.85	22000	22000	0.064	7203 BT	7203 BEGAP	7203 B.TVP.UA	7203 BT
17	40	12	10.4	5.5	20000	20000	0.064	7203 BT	7203 BEP	7203 B.TVP	7203 BT
17	40	12	11.1	6.1	20000	20000	0.064	7203 BM	7203 BEY	7203 B.MP	7203 BM
17	47	14	15.9	8.3	19000	19000	0.11	7303 BT	7303 BECBP	7303 B.TVP.UA	7303 BT
17	47	14	15.9	8.3	19000	19000	0.11	7303 BT	7303 BEGAP	7303 B.TVP.UA	7303 BT
17	47	14	15.9	8.3	19000	19000	0.11	7303 BT	7303 BEP	7303 B.TVP	7303 BT
20	47	14	13.3	7.65	18000	19000	0.11	7204 BM	7204 BECBM	7204 B.MP.UA	7204 BM
20	47	14	14.3	8.15	19000	19000	0.11	7204 BT	7204 BECBP	7204 B.TVP.UA	7204 BT
20	47	14	14	8.3	18000	18000	0.11	7204 BW	7204 BECBY	7204 B.JP.UA	7204 BW
20	47	14	14.3	8.15	19000	19000	0.11	7204 BT	7204 BEGAP	7204 B.TVP.UA	7204 BT
20	47	14	14.3	8.15	19000	19000	0.11	7204 BT	7204 BEGBP	7204 B.JP.UA	7204 BT
20	47	14	13.3	7.65	18000	18000	0.11	7204 BT	7204 BEP	7204 B.TVP	7204 BT
20	52	15	19	10	18000	18000	0.15	7304 BM	7304 BECBM	7304 B.MP.UA	7304 BM
20	52	15	19	10	18000	18000	0.14	7304 BT	7304 BECBP	7304 B.TVP.UA	7304 BT
20	52	15	19	10.4	16000	16000	0.15	7304 BW	7304 BECBY	7304 B.JP.UA	7304 BW
20	52	15	19	10	18000	18000	0.14	7304 BT	7304 BEGAP	7304 B.TVP.UA	7304 BT
20	52	15	19	10	18000	18000	0.14	7304 BT	7304 BEGBP	7304 B.JP.UA	7304 BT
20	52	15	17.4	9.5	16000	16000	0.14	7304 BT	7304 BEP	7304 B.TVP	7304 BT
20	52	15	19	10.4	16000	16000	0.15	7304 BM	7304 BEY	7304 B.MP	7304 BM
25	52	15	15.6	10	17000	17000	0.14	7205 BM	7205 BECBM	7205 B.MP.UA	7205 BM
25	52	15	15.6	10	17000	17000	0.13	7205 BT	7205 BECBP	7205 B.TVP.UA	7205 BT
25	52	15	15.6	10.2	15000	15000	0.13	7205 BW	7205 BECBY	7205 B.JP.UA	7205 BW
25	52	15	15.6	10	17000	17000	0.13	7205 BT	7205 BEGAP	7205 B.TVP.UA	7205 BT
25	52	15	15.6	10.2	15000	15000	0.13	7205 BM	7205 BEGAY	7205 B.MP.UA	7205 BM
25	52	15	15.6	10.2	15000	15000	0.13	7205 BM	7205 BEGBY	7205 B.MP.UA	7205 BM
25	52	15	15.6	10	17000	17000	0.13	7205 BT	7205 BEGCP	7205 B.TVP.UA	7205 BT
25	52	15	14.8	9.3	15000	15000	0.13	7205 BT	7205 BEP	7205 B.TVP	7205 BT
25	52	15	15.6	10.2	15000	15000	0.13	7205 BM	7205 BEY	7205 B.MP	7205 BM
25	62	17	26.5	15.3	15000	15000	0.24	7305 BM	7305 BECBM	7305 B.MP.UA	7305 BM
25	62	17	26.5	15.3	15000	15000	0.23	7305 BT	7305 BECBP	7305 B.TVP.UA	7305 BT
25	62	17	26	15.6	14000	14000	0.24	7305 BW	7305 BECBY	7305 B.JP.UA	7305 BW
25	62	17	26.5	15.3	15000	15000	0.23	7305 BT	7305 BEGAP	7305 B.TVP.UA	7305 BT
25	62	17	26	15.6	14000	14000	0.24	7305 BM	7305 BEGBY	7305 B.MP.UA	7305 BM
25	62	17	24.2	14	14000	14000	0.23	7305 BT	7305 BEP	7305 B.TVP	7305 BT
25	62	17	26	15.6	14000	14000	0.24	7305 BM	7305 BEY	7305 B.MP	7305 BM
25	80	21	39.7	23.6	11000	11000	0.61	7405 BM	7405 BECBM	7405 B.MP.UA	7405 BM



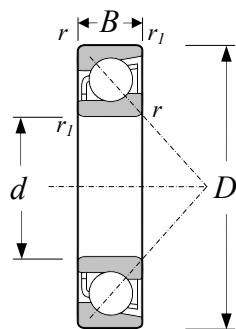
ANGULAR CONTACT BALL BEARINGS Single Row

Table 21
Bore Diameter 25mm - 40mm

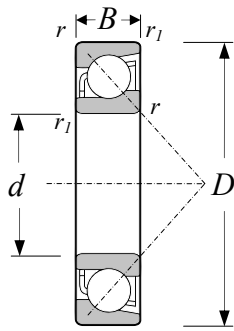
Principal Dimensions			Basic Load Ratings		Speed Ratings		Mass	Designations			
d	D	B	Dynamic C	Static C ₀	Ref. Speed	Limiting Speed		Local	SKF	FAG	NSK
mm			kN		r/min		kg				
25	80	21	39.7	23.6	11000	11000	0.61	7405 BM	7405 BGAM	7405 B.MP	7405 BM
25	80	21	39.7	23.6	11000	11000	0.61	7405 BM	7405 BM	7405 B.MP	7405 BM
30	62	16	24	15.6	14000	14000	0.21	7206 BM	7206 BECBM	7206 B.MP.UA	7206 BM
30	62	16	24	15.6	14000	14000	0.19	7206 BT	7206 BECBP	7206 B.TVP.UA	7206 BT
30	62	16	23.8	15.6	13000	13000	0.21	7206 BW	7206 BECBY	7206 B.JP.UA	7206 BW
30	62	16	24	15.6	14000	14000	0.19	7206 BT	7206 BEGAP	7206 B.TVP.UA	7206 BT
30	62	16	23.8	15.6	13000	13000	0.21	7206 BM	7206 BEGAY	7206 B.MP.UA	7206 BM
30	62	16	24	15.6	14000	14000	0.19	7206 BT	7206 BEGBP	7206 B.JP.UA	7206 BT
30	62	16	23.8	15.6	13000	13000	0.21	7206 BM	7206 BEGBY	7206 B.MP.UA	7206 BM
30	62	16	22.5	14.3	13000	13000	0.19	7206 BT	7206 BEP	7206 B.TVP	7206 BT
30	62	16	23.8	15.6	13000	13000	0.21	7206 BM	7206 BEY	7206 B.MP	7206 BM
30	72	19	35.5	21.2	13000	13000	0.37	7306 BM	7306 BECBM	7306 B.MP.UA	7306 BM
30	72	19	35.5	21.2	13000	13000	0.33	7306 BT	7306 BECBP	7306 B.TVP.UA	7306 BT
30	72	19	34.5	21.2	12000	12000	0.37	7306 BW	7306 BECBY	7306 B.JP.UA	7306 BW
30	72	19	35.5	21.2	13000	13000	0.37	7306 BM	7306 BEGAM	7306 B.MP.UA	7306 BM
30	72	19	35.5	21.2	13000	13000	0.33	7306 BT	7306 BEGAP	7306 B.TVP.UA	7306 BT
30	72	19	35.5	21.2	13000	13000	0.37	7306 BM	7306 BEGBM	7306 B.MP.UA	7306 BM
30	72	19	35.5	21.2	13000	13000	0.33	7306 BT	7306 BEGBP	7306 B.JP.UA	7306 BT
30	72	19	34.5	21.2	12000	12000	0.37	7306 BM	7306 BEGBY	7306 B.MP.UA	7306 BM
30	72	19	32.5	19.3	12000	12000	0.33	7306 BT	7306 BEP	7306 B.TVP	7306 BT
30	72	19	34.5	21.2	12000	12000	0.37	7306 BM	7306 BEY	7306 B.MP	7306 BM
30	90	23	47.5	29	10000	10000	0.85	7406 BM	7406 BECBM	7406 B.MP.UA	7406 BM
30	90	23	47.5	29	10000	10000	0.85	7406 BM	7406 BM	7406 B.MP	7406 BM
35	72	17	31	20.8	12000	12000	0.3	7207 BM	7207 BECBM	7207 B.MP.UA	7207 BM
35	72	17	31	20.8	12000	12000	0.28	7207 BT	7207 BECBP	7207 B.TVP.UA	7207 BT
35	72	17	30.7	20.8	11000	11000	0.3	7207 BW	7207 BECBY	7207 B.JP.UA	7207 BW
35	72	17	31	20.8	12000	12000	0.3	7207 BM	7207 BEGAM	7207 B.MP.UA	7207 BM
35	72	17	31	20.8	12000	12000	0.28	7207 BT	7207 BEGAP	7207 B.TVP.UA	7207 BT
35	72	17	30.7	20.8	11000	11000	0.3	7207 BM	7207 BEGAY	7207 B.MP.UA	7207 BM
35	72	17	31	20.8	12000	12000	0.28	7207 BT	7207 BEGBP	7207 B.JP.UA	7207 BT
35	72	17	30.7	20.8	11000	11000	0.3	7207 BM	7207 BEGBY	7207 B.MP.UA	7207 BM
35	72	17	29.1	19	11000	11000	0.28	7207 BT	7207 BEP	7207 B.TVP	7207 BT
35	72	17	30.7	20.8	11000	11000	0.3	7207 BM	7207 BEY	7207 B.MP	7207 BM
35	80	21	41.5	26.5	11000	11000	0.49	7307 BM	7307 BECBM	7307 B.MP.UA	7307 BM
35	80	21	41.5	26.5	11000	11000	0.45	7307 BT	7307 BECBP	7307 B.TVP.UA	7307 BT
35	80	21	39	24.5	10000	10000	0.49	7307 BW	7307 BECBY	7307 B.JP.UA	7307 BW
35	80	21	41.5	26.5	11000	11000	0.45	7307 BT	7307 BEGAP	7307 B.TVP.UA	7307 BT
35	80	21	41.5	26.5	11000	11000	0.45	7307 BT	7307 BEGBP	7307 B.JP.UA	7307 BT
35	80	21	39	24.5	10000	10000	0.45	7307 BT	7307 BEP	7307 B.TVP	7307 BT
35	80	21	39	24.5	10000	10000	0.49	7307 BM	7307 BEY	7307 B.MP	7307 BM
35	100	25	60.5	38	8500	9000	1.1	7407 BM	7407 BECBM	7407 B.MP.UA	7407 BM
35	100	25	60.5	38	8500	9000	1.1	7407 BM	7407 BM	7407 B.MP	7407 BM
40	80	18	36.4	26	10000	10000	0.38	7208 BW	7208 BECBJ	7208 B.TVP.UA	7208 BW
40	80	18	36.5	26	11000	11000	0.39	7208 BM	7208 BECBM	7208 B.MP.UA	7208 BM
40	80	18	36.5	26	11000	11000	0.37	7208 BT	7208 BECBP	7208 B.TVP.UA	7208 BT
40	80	18	36.4	26	10000	10000	0.38	7208 BW	7208 BECBY	7208 B.JP.UA	7208 BW
40	80	18	36.5	26	11000	11000	0.39	7208 BM	7208 BEGAM	7208 B.MP.UA	7208 BM
40	80	18	36.5	26	11000	11000	0.37	7208 BT	7208 BEGAP	7208 B.TVP.UA	7208 BT
40	80	18	36.4	26	10000	10000	0.38	7208 BM	7208 BEGAY	7208 B.MP.UA	7208 BM
40	80	18	36.4	26	10000	10000	0.38	7208 BM	7208 BEGBY	7208 B.MP.UA	7208 BM

ANGULAR CONTACT BALL BEARINGS Single Row

Table 22
Bore Diameter 40mm - 50mm



Principal Dimensions			Basic Load Ratings		Speed Ratings		Mass	Designations			
d	D	B	Dynamic C	Static C ₀	Ref. Speed	Limiting Speed		Local	SKF	FAG	NSK
mm			kN		r/min		kg				
40	80	18	34.5	24	10000	10000	0.39	7208 BM	7208 BEM	7208 B.MP	7208 BM
40	80	18	34.5	24	10000	10000	0.37	7208 BT	7208 BEP	7208 B.TVP	7208 BT
40	80	18	36.4	26	10000	10000	0.38	7208 BM	7208 BEY	7208 B.MP	7208 BM
40	90	23	49.4	33.5	9000	9000	0.66	7308 BW	7308 BECBJ	7308 B.TVP.UA	7308 BW
40	90	23	50	32.5	10000	10000	0.68	7308 BM	7308 BECBM	7308 B.MP.UA	7308 BM
40	90	23	50	32.5	10000	10000	0.61	7308 BT	7308 BECBP	7308 B.TVP.UA	7308 BT
40	90	23	49.4	33.5	9000	9000	0.64	7308 BW	7308 BECBY	7308 B.JP.UA	7308 BW
40	90	23	49.4	33.5	9000	9000	0.64	7308 BM	7308 BECCY	7308 B.MP.UA	7308 BM
40	90	23	49.4	33.5	9000	9000	0.68	7308 BW	7308 BEGAF	7308 B.JP.UA	7308 BW
40	90	23	50	32.5	10000	10000	0.68	7308 BM	7308 BEGAM	7308 B.MP.UA	7308 BM
40	90	23	50	32.5	10000	10000	0.61	7308 BT	7308 BEGAP	7308 B.TVP.UA	7308 BT
40	90	23	50	32.5	10000	10000	0.68	7308 BM	7308 BEGBM	7308 B.MP.UA	7308 BM
40	90	23	50	32.5	10000	10000	0.61	7308 BT	7308 BEGBP	7308 B.JP.UA	7308 BT
40	90	23	49.4	33.5	9000	9000	0.64	7308 BM	7308 BEGBY	7308 B.MP.UA	7308 BM
40	90	23	46.2	30.5	9000	9000	0.61	7308 BT	7308 BEP	7308 B.TVP	7308 BT
40	90	23	49.4	33.5	9000	9000	0.64	7308 BM	7308 BEY	7308 B.MP	7308 BM
40	110	27	70.2	45	8000	8000	1.4	7408 BM	7408 BCBM	7408 B.MP.UA	7408 BM
40	110	27	70.2	45	8000	8000	1.4	7408 BM	7408 BGBM	7408 B.MP	7408 BM
40	110	27	70.2	45	8000	8000	1.4	7408 BM	7408 BM	7408 B.MP	7408 BM
45	85	19	37.7	28	9000	9000	0.43	7209 BW	7209 BECBJ	7209 B.TVP.UA	7209 BW
45	85	19	38	28.5	10000	10000	0.44	7209 BM	7209 BECBM	7209 B.MP.UA	7209 BM
45	85	19	38	28.5	10000	10000	0.42	7209 BT	7209 BECBP	7209 B.TVP.UA	7209 BT
45	85	19	37.7	28	9000	9000	0.43	7209 BW	7209 BECBY	7209 B.JP.UA	7209 BW
45	85	19	38	28.5	10000	10000	0.42	7209 BT	7209 BEGAP	7209 B.TVP.UA	7209 BT
45	85	19	37.7	28	9000	9000	0.43	7209 BM	7209 BEGAY	7209 B.MP.UA	7209 BM
45	85	19	37.7	28	9000	9000	0.43	7209 BM	7209 BEGBY	7209 B.MP.UA	7209 BM
45	85	19	35.8	26	9000	9000	0.42	7209 BT	7209 BEP	7209 B.TVP	7209 BT
45	85	19	37.7	28	9000	9000	0.43	7209 BM	7209 BEY	7209 B.MP	7209 BM
45	100	25	60.5	41.5	8000	8000	0.86	7309 BW	7309 BECBJ	7309 B.TVP.UA	7309 BW
45	100	25	61	40.5	9000	9000	0.9	7309 BM	7309 BECBM	7309 B.MP.UA	7309 BM
45	100	25	61	40.5	9000	9000	0.82	7309 BT	7309 BECBP	7309 B.TVP.UA	7309 BT
45	100	25	60.5	41.5	8000	8000	0.86	7309 BW	7309 BECBY	7309 B.JP.UA	7309 BW
45	100	25	61	40.5	9000	9000	0.82	7309 BT	7309 BEGAP	7309 B.TVP.UA	7309 BT
45	100	25	61	40.5	9000	9000	0.82	7309 BT	7309 BEGBP	7309 B.JP.UA	7309 BT
45	100	25	60.5	41.5	8000	8000	0.86	7309 BM	7309 BEGBY	7309 B.MP.UA	7309 BM
45	100	25	55.9	37.5	8000	8000	0.82	7309 BT	7309 BEP	7309 B.TVP	7309 BT
45	100	25	60.5	41.5	8000	8000	0.86	7309 BM	7309 BEY	7309 B.MP	7309 BM
45	120	29	85.2	55	7000	7500	1.8	7409 BM	7409 BCBM	7409 B.MP.UA	7409 BM
45	120	29	85.2	55	7000	7500	1.8	7409 BM	7409 BGBM	7409 B.MP	7409 BM
45	120	29	85.2	55	7000	7500	1.8	7409 BM	7409 BGM	7409 B.MP	7409 BM
50	90	20	39	30.5	8500	8500	0.47	7210 BW	7210 BECBJ	7210 B.TVP.UA	7210 BW
50	90	20	40	31	9000	9000	0.51	7210 BM	7210 BECBM	7210 B.MP.UA	7210 BM
50	90	20	40	31	9000	9000	0.47	7210 BT	7210 BECBP	7210 B.TVP.UA	7210 BT
50	90	20	39	30.5	8500	8500	0.47	7210 BW	7210 BECBY	7210 B.JP.UA	7210 BW
50	90	20	40	31	9000	9000	0.47	7210 BT	7210 BEGAP	7210 B.TVP.UA	7210 BT
50	90	20	37.7	28.5	8500	8500	0.47	7210 BT	7210 BEP	7210 B.TVP	7210 BT
50	90	20	39	30.5	8500	8500	0.47	7210 BM	7210 BEY	7210 B.MP	7210 BM
50	110	27	74.1	51	7500	7500	1.13	7310 BW	7310 BECBJ	7310 B.TVP.UA	7310 BW
50	110	27	75	51	8000	8000	1.16	7310 BM	7310 BECBM	7310 B.MP.UA	7310 BM
50	110	27	75	51	8000	8000	1.04	7310 BT	7310 BECBP	7310 B.TVP.UA	7310 BT



ANGULAR CONTACT BALL BEARINGS

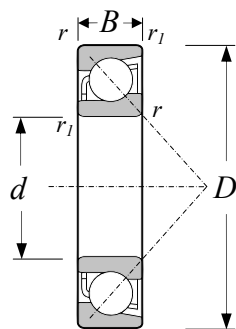
Single Row

Table 23
Bore Diameter 50mm - 60mm

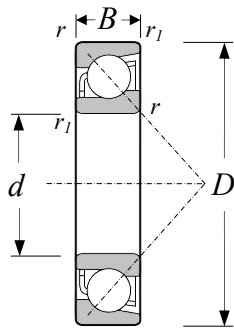
Principal Dimensions			Basic Load Ratings		Speed Ratings		Mass	Designations			
d	D	B	Dynamic	Static	Ref. Speed	Limiting Speed		Local	SKF	FAG	NSK
mm			C	C ₀	r/min						
50	110	27	74.1	51	7500	7500	1.13	7310 BW	7310 BECBY	7310 B.JP.UA	7310 BW
50	110	27	68.9	47.5	7500	7500	1.16	7310 BW	7310 BEGAF	7310 B.JP.UA	7310 BW
50	110	27	75	51	8000	8000	1.16	7310 BM	7310 BEGAM	7310 B.MP.UA	7310 BM
50	110	27	75	51	8000	8000	1.04	7310 BT	7310 BEGAP	7310 B.TVP.UA	7310 BT
50	110	27	74.1	51	7500	7500	1.13	7310 BM	7310 BEGAY	7310 B.MP.UA	7310 BM
50	110	27	75	51	8000	8000	1.04	7310 BT	7310 BEGBP	7310 B.JP.UA	7310 BT
50	110	27	74.1	51	7500	7500	1.13	7310 BM	7310 BEGBY	7310 B.MP.UA	7310 BM
50	110	27	68.9	47.5	7500	7500	1.04	7310 BT	7310 BEP	7310 B.TVP	7310 BT
50	110	27	74.1	51	7500	7500	1.13	7310 BM	7310 BEY	7310 B.MP.UA	7310 BM
50	130	31	95.6	64	6300	6700	2.25	7410 BM	7410 BCBM	7410 B.MP.UA	7410 BM
50	130	31	95.6	64	6300	6700	2.25	7410 BM	7410 BM	7410 B.MP	7410 BM
55	100	21	48.8	38	7500	7500	0.62	7211 BW	7211 BECBJ	7211 B.TVP.UA	7211 BW
55	100	21	49	40	8000	8000	0.66	7211 BM	7211 BECBM	7211 B.MP.UA	7211 BM
55	100	21	49	40	8000	8000	0.62	7211 BT	7211 BECBP	7211 B.TVP.UA	7211 BT
55	100	21	48.8	38	7500	7500	0.62	7211 BW	7211 BECBY	7211 B.JP.UA	7211 BW
55	100	21	49	40	8000	8000	0.62	7211 BT	7211 BEGAP	7211 B.TVP.UA	7211 BT
55	100	21	48.8	38	7500	7500	0.62	7211 BM	7211 BEGBY	7211 B.MP.UA	7211 BM
55	100	21	46.2	36	7500	7500	0.62	7211 BT	7211 BEP	7211 B.TVP	7211 BT
55	100	21	48.8	38	7500	7500	0.62	7211 BM	7211 BEY	7211 B.MP	7211 BM
55	120	29	85.2	60	6700	6700	1.48	7311 BW	7311 BECBJ	7311 B.TVP.UA	7311 BW
55	120	29	85	60	7000	7000	1.49	7311 BM	7311 BECBM	7311 B.MP.UA	7311 BM
55	120	29	85	60	7000	7000	1.34	7311 BT	7311 BECBP	7311 B.TVP.UA	7311 BT
55	120	29	85.2	60	6700	6700	1.48	7311 BW	7311 BECBY	7311 B.JP.UA	7311 BW
55	120	29	85	60	7000	7000	1.49	7311 BM	7311 BECCM	7311 B.MP.UA	7311 BM
55	120	29	85	60	7000	7000	1.49	7311 BM	7311 BEGAM	7311 B.MP.UA	7311 BM
55	120	29	85	60	7000	7000	1.34	7311 BT	7311 BEGAP	7311 B.TVP.UA	7311 BT
55	120	29	85.2	60	6700	6700	1.48	7311 BM	7311 BEGAY	7311 B.MP.UA	7311 BM
55	120	29	85	60	7000	7000	1.49	7311 BM	7311 BEGBM	7311 B.MP.UA	7311 BM
55	120	29	85.2	60	6700	6700	1.48	7311 BM	7311 BEGBY	7311 B.MP.UA	7311 BM
55	120	29	85.2	60	6700	6700	1.48	7311 BM	7311 BEGCY	7311 B.MP.UA	7311 BM
55	120	29	79.3	55	6700	6700	1.34	7311 BT	7311 BEP	7311 B.TVP	7311 BT
55	120	29	85.2	60	6700	6700	1.48	7311 BM	7311 BEY	7311 B.MP	7311 BM
55	140	33	111	76.5	6000	6300	2.75	7411 BM	7411 BCBM	7411 B.MP.UA	7411 BM
55	140	33	111	76.5	6000	6300	2.75	7411 BM	7411 BGAM	7411 B.MP	7411 BM
55	140	33	111	76.5	6000	6300	2.75	7411 BM	7411 BGBM	7411 B.MP	7411 BM
55	140	33	111	76.5	6000	6300	2.75	7411 BM	7411 BGM	7411 B.MP	7411 BM
55	140	33	111	76.5	6000	6300	2.75	7411 BM	7411 BM	7411 B.MP	7411 BM
60	110	22	57.2	45.5	7000	7000	0.83	7212 BW	7212 BECBJ	7212 B.TVP.UA	7212 BW
60	110	22	61	50	7500	7500	0.85	7212 BM	7212 BECBM	7212 B.MP.UA	7212 BM
60	110	22	61	50	7500	7500	0.78	7212 BT	7212 BECBP	7212 B.TVP.UA	7212 BT
60	110	22	57.2	45.5	7000	7000	0.83	7212 BW	7212 BECBY	7212 B.JP.UA	7212 BW
60	110	22	61	50	7500	7500	0.85	7212 BM	7212 BEGAM	7212 B.MP.UA	7212 BM
60	110	22	61	50	7500	7500	0.78	7212 BT	7212 BEGAP	7212 B.TVP.UA	7212 BT
60	110	22	61	50	7500	7500	0.78	7212 BT	7212 BEGBP	7212 B.JP.UA	7212 BT
60	110	22	57.2	45.5	7000	7000	0.78	7212 BT	7212 BEP	7212 B.TVP	7212 BT
60	110	22	57.2	45.5	7000	7000	0.83	7212 BM	7212 BEY	7212 B.MP	7212 BM
60	130	31	95.6	69.5	6000	6000	1.8	7312 BW	7312 BECBJ	7312 B.TVP.UA	7312 BW
60	130	31	104	76.5	6700	6700	1.88	7312 BM	7312 BECBM	7312 B.MP.UA	7312 BM
60	130	31	104	76.5	6700	6700	1.71	7312 BT	7312 BECBP	7312 B.TVP.UA	7312 BT
60	130	31	95.6	69.5	6000	6000	1.75	7312 BW	7312 BECBY	7312 B.JP.UA	7312 BW

ANGULAR CONTACT BALL BEARINGS Single Row

Table 24
Bore Diameter 60mm - 70mm



Principal Dimensions			Basic Load Ratings		Speed Ratings		Mass	Designations			
d	D	B	C	C ₀	Ref. Speed	Limiting Speed		Local	SKF	FAG	NSK
mm			kN		r/min		kg				
60	130	31	104	76.5	6700	6700	1.88	7312 BM	7312 BECCM	7312 B.MP.UA	7312 BM
60	130	31	104	76.5	6700	6700	1.88	7312 BM	7312 BEGAM	7312 B.MP.UA	7312 BM
60	130	31	104	76.5	6700	6700	1.71	7312 BT	7312 BEGAP	7312 B.TVP.UA	7312 BT
60	130	31	95.6	69.5	6000	6000	1.75	7312 BM	7312 BEGAY	7312 B.MP.UA	7312 BM
60	130	31	104	76.5	6700	6700	1.88	7312 BM	7312 BEGBM	7312 B.MP.UA	7312 BM
60	130	31	104	76.5	6700	6700	1.71	7312 BT	7312 BEGBP	7312 B.JP.UA	7312 BT
60	130	31	95.6	69.5	6000	6000	1.75	7312 BM	7312 BEGBY	7312 B.MP.UA	7312 BM
60	130	31	95.6	69.5	6000	6300	1.88	7312 BM	7312 BEM	7312 B.MP	7312 BM
60	130	31	95.6	69.5	6000	6000	1.71	7312 BT	7312 BEP	7312 B.TVP	7312 BT
60	130	31	95.6	69.5	6000	6000	1.75	7312 BM	7312 BEY	7312 B.MP	7312 BM
60	150	35	119	86.5	5600	5600	3.3	7412 BM	7412 BCBM	7412 B.MP.UA	7412 BM
60	150	35	119	86.5	5600	5600	3.3	7412 BM	7412 BGAM	7412 B.MP	7412 BM
60	150	35	119	86.5	5600	5600	3.3	7412 BM	7412 BM	7412 B.MP	7412 BM
65	120	23	66.3	54	6300	6300	1	7213 BW	7213 BECBJ	7213 B.TVP.UA	7213 BW
65	120	23	69.5	57	6700	6700	1.1	7213 BM	7213 BECBM	7213 B.MP.UA	7213 BM
65	120	23	69.5	57	6700	6700	1	7213 BT	7213 BECBP	7213 B.TVP.UA	7213 BT
65	120	23	66.3	54	6300	6300	1	7213 BW	7213 BECBY	7213 B.JP.UA	7213 BW
65	120	23	66.3	54	6300	6300	1.1	7213 BW	7213 BEGAF	7213 B.JP.UA	7213 BW
65	120	23	69.5	57	6700	6700	1	7213 BT	7213 BEGAP	7213 B.TVP.UA	7213 BT
65	120	23	66.3	54	6300	6300	1	7213 BM	7213 BEGAY	7213 B.MP.UA	7213 BM
65	120	23	66.3	54	6300	6300	1	7213 BT	7213 BEP	7213 B.TVP	7213 BT
65	120	23	66.3	54	6300	6300	1	7213 BM	7213 BEY	7213 B.MP	7213 BM
65	140	33	108	80	5600	5600	2.35	7313 BW	7313 BECBF	7313 B.TVP.UA	7313 BW
65	140	33	108	80	5600	5600	2.2	7313 BW	7313 BECBJ	7313 B.TVP.UA	7313 BW
65	140	33	116	86.5	6300	6300	2.31	7313 BM	7313 BECBM	7313 B.MP.UA	7313 BM
65	140	33	116	86.5	6300	6300	2.1	7313 BT	7313 BECBP	7313 B.TVP.UA	7313 BT
65	140	33	108	80	5600	5600	2.15	7313 BW	7313 BECBY	7313 B.JP.UA	7313 BW
65	140	33	116	86.5	6300	6300	2.31	7313 BM	7313 BECCM	7313 B.MP.UA	7313 BM
65	140	33	108	80	5600	5600	2.35	7313 BW	7313 BEGAF	7313 B.JP.UA	7313 BW
65	140	33	116	86.5	6300	6300	2.31	7313 BM	7313 BEGAM	7313 B.MP.UA	7313 BM
65	140	33	116	86.5	6300	6300	2.1	7313 BT	7313 BEGAP	7313 B.TVP.UA	7313 BT
65	140	33	116	86.5	6300	6300	2.31	7313 BM	7313 BEGBM	7313 B.MP.UA	7313 BM
65	140	33	116	86.5	6300	6300	2.1	7313 BT	7313 BEGBP	7313 B.JP.UA	7313 BT
65	140	33	108	80	5600	5600	2.15	7313 BM	7313 BEGBY	7313 B.MP.UA	7313 BM
65	140	33	108	80	5600	5600	2.1	7313 BT	7313 BEP	7313 B.TVP	7313 BT
65	160	37	130	96.5	5000	5300	3.85	7413 BM	7413 BCBM	7413 B.MP.UA	7413 BM
65	160	37	130	96.5	5000	5300	3.85	7413 BM	7413 BGAM	7413 B.MP	7413 BM
65	160	37	130	96.5	5000	5300	3.85	7413 BM	7413 BGBM	7413 B.MP	7413 BM
70	125	24	71.5	60	6000	6000	1.1	7214 BW	7214 BECBJ	7214 B.TVP.UA	7214 BW
70	125	24	72	60	6300	6300	1.18	7214 BM	7214 BECBM	7214 B.MP.UA	7214 BM
70	125	24	75	64	6300	6300	1.1	7214 BT	7214 BECBP	7214 B.TVP.UA	7214 BT
70	125	24	71.5	60	6000	6000	1.1	7214 BW	7214 BECBY	7214 B.JP.UA	7214 BW
70	125	24	72	60	6300	6300	1.18	7214 BM	7214 BEGAM	7214 B.MP.UA	7214 BM
70	125	24	75	64	6300	6300	1.1	7214 BT	7214 BEGAP	7214 B.TVP.UA	7214 BT
70	125	24	71.5	60	6000	6000	1.1	7214 BT	7214 BEP	7214 B.TVP	7214 BT
70	150	35	119	90	5300	5300	2.7	7314 BW	7314 BECBJ	7314 B.TVP.UA	7314 BW
70	150	35	127	98	5600	5600	2.83	7314 BM	7314 BECBM	7314 B.MP.UA	7314 BM
70	150	35	127	98	5600	5600	2.55	7314 BT	7314 BECBP	7314 B.TVP.UA	7314 BT
70	150	35	119	90	5300	5300	2.67	7314 BW	7314 BECBY	7314 B.JP.UA	7314 BW
70	150	35	119	90	5300	5300	2.83	7314 BW	7314 BEGAF	7314 B.JP.UA	7314 BW



ANGULAR CONTACT BALL BEARINGS

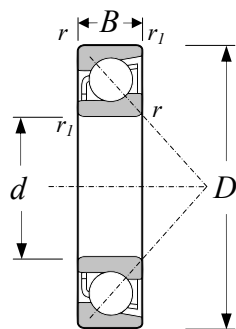
Single Row

Table 25
Bore Diameter 70mm - 85mm

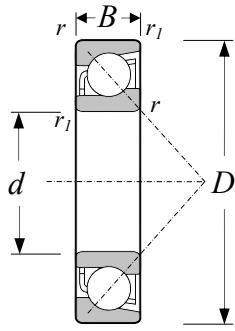
Principal Dimensions			Basic Load Ratings		Speed Ratings		Mass	Designations			
d	D	B	Dynamic	Static	Ref. Speed	Limiting Speed		Local	SKF	FAG	NSK
mm			C	C ₀	r/min						
70	150	35	119	90	5300	5300	2.7	7314 BW	7314 BEGAJ	7314 B.JP.UA	7314 BW
70	150	35	127	98	5600	5600	2.83	7314 BM	7314 BEGAM	7314 B.MP.UA	7314 BM
70	150	35	127	98	5600	5600	2.55	7314 BT	7314 BEGAP	7314 B.TVP.UA	7314 BT
70	150	35	119	90	5300	5300	2.67	7314 BM	7314 BEGAY	7314 B.MP.UA	7314 BM
70	150	35	119	90	5300	5300	2.67	7314 BM	7314 BEGBY	7314 B.MP.UA	7314 BM
70	150	35	119	90	5300	5300	2.55	7314 BT	7314 BEP	7314 B.TVP	7314 BT
70	180	42	159	127	4500	4800	5	7414 BM	7414 BCBM	7414 B.MP.UA	7414 BM
70	180	42	159	127	4500	4800	5	7414 BM	7414 BGAM	7414 B.MP	7414 BM
75	130	25	72.8	64	5600	5600	1.26	7215 BW	7215 BECBJ	7215 B.TVP.UA	7215 BW
75	130	25	73.5	65.5	6300	6300	1.29	7215 BM	7215 BECBM	7215 B.MP.UA	7215 BM
75	130	25	73.5	65.5	6300	6300	1.18	7215 BT	7215 BECBP	7215 B.TVP.UA	7215 BT
75	130	25	72.8	64	5600	5600	1.26	7215 BW	7215 BECBY	7215 B.JP.UA	7215 BW
75	130	25	72.8	64	5600	5600	1.26	7215 BM	7215 BEGAY	7215 B.TVP.UA	7215 BM
75	130	25	70.2	60	5600	5600	1.18	7215 BT	7215 BEP	7215 B.TVP	7215 BT
75	160	37	133	106	5000	5000	3.2	7315 BW	7315 BECBJ	7315 B.TVP.UA	7315 BW
75	160	37	132	104	5300	5300	3.26	7315 BM	7315 BECBM	7315 B.MP.UA	7315 BM
75	160	37	132	104	5300	5300	3.06	7315 BT	7315 BECBP	7315 B.TVP.UA	7315 BT
75	160	37	133	106	5000	5000	3.2	7315 BW	7315 BECBY	7315 B.JP.UA	7315 BW
75	160	37	132	104	5300	5300	3.26	7315 BM	7315 BEGAM	7315 B.MP.UA	7315 BM
75	160	37	132	104	5300	5300	3.06	7315 BT	7315 BEGAP	7315 B.TVP.UA	7315 BT
75	160	37	125	98	5000	5000	3.06	7315 BT	7315 BEP	7315 B.TVP	7315 BT
75	190	45	168	140	4300	4500	6.85	7415 BM	7415 BCBM	7415 B.MP.UA	7415 BM
75	190	45	168	140	4300	4500	6.85	7415 BM	7415 BGAM	7415 B.MP	7415 BM
75	190	45	168	140	4300	4500	6.85	7415 BM	7415 BGBM	7415 B.MP	7415 BM
75	190	45	168	140	4300	4500	6.85	7415 BM	7415 BM	7415 B.MP	7415 BM
80	140	26	83.2	73.5	5300	5300	1.58	7216 BW	7216 BECBJ	7216 B.TVP.UA	7216 BW
80	140	26	85	75	5600	5600	1.59	7216 BM	7216 BECBM	7216 B.MP.UA	7216 BM
80	140	26	85	75	5600	5600	1.43	7216 BT	7216 BECBP	7216 B.TVP.UA	7216 BT
80	140	26	83.2	73.5	5300	5300	1.58	7216 BW	7216 BECBY	7216 B.JP.UA	7216 BW
80	140	26	80.6	69.5	5300	5300	1.6	7216 BW	7216 BEGAF	7216 B.JP.UA	7216 BW
80	140	26	85	75	5600	5600	1.59	7216 BM	7216 BEGAM	7216 B.MP.UA	7216 BM
80	140	26	85	75	5600	5600	1.43	7216 BT	7216 BEGAP	7216 B.TVP.UA	7216 BT
80	140	26	80.6	69.5	5300	5300	1.43	7216 BT	7216 BEP	7216 B.TVP	7216 BT
80	170	39	143	118	4500	4500	3.85	7316 BW	7316 BECBJ	7316 B.TVP.UA	7316 BW
80	170	39	143	118	5000	5000	4.03	7316 BM	7316 BECBM	7316 B.MP.UA	7316 BM
80	170	39	143	118	5000	5000	3.64	7316 BT	7316 BECBP	7316 B.TVP.UA	7316 BT
80	170	39	143	118	4500	4500	3.7	7316 BW	7316 BECBY	7316 B.JP.UA	7316 BW
80	170	39	143	118	5000	5000	4.03	7316 BM	7316 BECCM	7316 B.MP.UA	7316 BM
80	170	39	143	118	5000	5000	4.03	7316 BM	7316 BEGAM	7316 B.MP.UA	7316 BM
80	170	39	143	118	5000	5000	3.64	7316 BT	7316 BEGAP	7316 B.TVP.UA	7316 BT
80	170	39	143	118	4500	4500	3.7	7316 BM	7316 BEGAY	7316 B.MP.UA	7316 BM
80	170	39	143	118	4500	4500	3.7	7316 BM	7316 BEGBY	7316 B.MP.UA	7316 BM
80	170	39	135	110	4500	4800	4.03	7316 BM	7316 BEM	7316 B.MP	7316 BM
80	170	39	135	110	4500	4500	3.64	7316 BT	7316 BEP	7316 B.TVP	7316 BT
80	170	39	143	118	4500	4500	3.7	7316 BM	7316 BEY	7316 B.MP	7316 BM
80	200	48	178	153	4000	4300	8	7416 BM	7416 CBM	7416 B.MP	7416 BM
80	200	48	178	153	4000	4300	8	7416 BM	7416 GAM	7416 B.MP	7416 BM
80	200	48	178	153	4000	4300	8	7416 BM	7416 M	7416 B.MP	7416 BM
85	150	28	95.6	83	5000	5000	1.9	7217 BW	7217 BECBJ	7217 B.TVP.UA	7217 BW
85	150	28	95.6	83	5000	5300	1.99	7217 BM	7217 BECBM	7217 B.MP.UA	7217 BM

ANGULAR CONTACT BALL BEARINGS Single Row

Table 26
Bore Diameter 85mm - 95mm



Principal Dimensions			Basic Load Ratings		Speed Ratings		Mass	Designations			
d	D	B	Dynamic C	Static C ₀	Ref. Speed	Limiting Speed		Local	SKF	FAG	NSK
mm			kN		r/min		kg				
85	150	28	102	90	5300	5300	1.83	7217 BT	7217 BECBP	7217 B.TVP.UA	7217 BT
85	150	28	95.6	83	5000	5000	1.83	7217 BW	7217 BECBY	7217 B.JP.UA	7217 BW
85	150	28	95.6	83	5000	5000	1.99	7217 BW	7217 BEGAF	7217 B.JP.UA	7217 BW
85	150	28	95.6	83	5000	5000	1.83	7217 BT	7217 BEP	7217 B.TVP	7217 BT
85	180	41	146	122	4300	4300	4.75	7317 BW	7317 BECBF	7317 B.TVP.UA	7317 BW
85	180	41	153	132	4300	4300	4.59	7317 BW	7317 BECBJ	7317 B.TVP.UA	7317 BW
85	180	41	156	132	4800	4800	4.74	7317 BM	7317 BECBM	7317 B.MP.UA	7317 BM
85	180	41	156	132	4800	4800	4.26	7317 BT	7317 BECBP	7317 B.TVP.UA	7317 BT
85	180	41	153	132	4300	4300	4.59	7317 BW	7317 BECBY	7317 B.JP.UA	7317 BW
85	180	41	156	132	4800	4800	4.74	7317 BM	7317 BECCM	7317 B.MP.UA	7317 BM
85	180	41	146	122	4300	4300	4.75	7317 BW	7317 BEGAF	7317 B.JP.UA	7317 BW
85	180	41	156	132	4800	4800	4.74	7317 BM	7317 BEGAM	7317 B.MP.UA	7317 BM
85	180	41	156	132	4800	4800	4.26	7317 BT	7317 BEGAP	7317 B.TVP.UA	7317 BT
85	180	41	153	132	4300	4300	4.59	7317 BM	7317 BEGBY	7317 B.MP.UA	7317 BM
85	180	41	146	112	4300	4500	4.74	7317 BM	7317 BEM	7317 B.MP	7317 BM
85	180	41	146	112	4300	4300	4.26	7317 BT	7317 BEP	7317 B.TVP	7317 BT
90	160	30	108	96.5	4500	4500	2.34	7218 BW	7218 BECBJ	7218 B.TVP.UA	7218 BW
90	160	30	108	96.5	4500	4800	2.41	7218 BM	7218 BECBM	7218 B.MP.UA	7218 BM
90	160	30	116	104	4800	4800	2.12	7218 BT	7218 BECBP	7218 B.TVP.UA	7218 BT
90	160	30	108	96.5	4500	4500	2.34	7218 BW	7218 BECBY	7218 B.JP.UA	7218 BW
90	160	30	108	96.5	4500	4800	2.41	7218 BM	7218 BECCM	7218 B.MP.UA	7218 BM
90	160	30	108	96.5	4500	4500	2.41	7218 BW	7218 BEGAF	7218 B.JP.UA	7218 BW
90	160	30	116	104	4800	4800	2.12	7218 BT	7218 BEGAP	7218 B.TVP.UA	7218 BT
90	160	30	108	96.5	4500	4500	2.41	7218 BW	7218 BEGBF	7218 B.JP.UA	7218 BW
90	160	30	108	96.5	4500	4500	2.12	7218 BT	7218 BEP	7218 B.TVP	7218 BT
90	190	43	165	146	4000	4000	5.22	7318 BW	7318 BECBJ	7318 B.TVP.UA	7318 BW
90	190	43	166	146	4500	4500	5.53	7318 BM	7318 BECBM	7318 B.MP.UA	7318 BM
90	190	43	166	146	4500	4500	4.98	7318 BT	7318 BECBP	7318 B.TVP.UA	7318 BT
90	190	43	165	146	4000	4000	5.22	7318 BW	7318 BECBY	7318 B.JP.UA	7318 BW
90	190	43	166	146	4500	4500	4.98	7318 BT	7318 BEGAP	7318 B.TVP.UA	7318 BT
90	190	43	165	146	4000	4000	5.22	7318 BM	7318 BEGAY	7318 B.MP.UA	7318 BM
90	190	43	156	134	4000	4300	5.53	7318 BM	7318 BEM	7318 B.MP	7318 BM
90	190	43	156	134	4000	4000	4.98	7318 BT	7318 BEP	7318 B.TVP	7318 BT
90	225	54	216	200	3600	3800	11.5	7418 BM	7418 CBM	7418 B.MP	7418 BM
90	225	54	216	200	3600	3800	11.5	7418 BM	7418 GAM	7418 B.MP	7418 BM
90	225	54	216	200	3600	3800	11.5	7418 BM	7418 GBM	7418 B.MP	7418 BM
90	225	54	216	200	3600	3800	11.5	7418 BM	7418 M	7418 B.MP	7418 BM
95	170	32	129	118	4800	4800	2.95	7219 BM	7219 BECBM	7219 B.MP.UA	7219 BM
95	170	32	129	118	4800	4800	2.68	7219 BT	7219 BECBP	7219 B.TVP.UA	7219 BT
95	170	32	124	108	4300	4300	2.82	7219 BW	7219 BECBY	7219 B.JP.UA	7219 BW
95	170	32	129	118	4800	4800	2.95	7219 BM	7219 BEGAM	7219 B.MP.UA	7219 BM
95	170	32	124	108	4300	4300	2.68	7219 BT	7219 BEP	7219 B.TVP	7219 BT
95	200	45	180	163	4300	4300	6.41	7319 BM	7319 BECBM	7319 B.MP.UA	7319 BM
95	200	45	180	163	4300	4300	5.77	7319 BT	7319 BECBP	7319 B.TVP.UA	7319 BT
95	200	45	178	163	3800	3800	6.17	7319 BW	7319 BECBY	7319 B.JP.UA	7319 BW
95	200	45	168	150	3800	3800	6.41	7319 BW	7319 BEGAF	7319 B.JP.UA	7319 BW
95	200	45	180	163	4300	4300	6.41	7319 BM	7319 BEGAM	7319 B.MP.UA	7319 BM
95	200	45	178	163	3800	3800	6.17	7319 BM	7319 BEGAY	7319 B.MP.UA	7319 BM
95	200	45	178	163	3800	3800	6.17	7319 BM	7319 BEGBY	7319 B.MP.UA	7319 BM
95	200	45	168	150	3800	4000	6.41	7319 BM	7319 BEM	7319 B.MP	7319 BM



ANGULAR CONTACT BALL BEARINGS

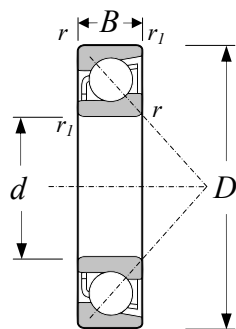
Single Row

Table 27
Bore Diameter 95mm - 120mm

Principal Dimensions			Basic Load Ratings		Speed Ratings		Mass	Designations			
d	D	B	C	C ₀	Ref. Speed	Limiting Speed		Local	SKF	FAG	NSK
mm			kN		r/min						
95	200	45	168	150	3800	3800	5.77	7319 BT	7319 BEP	7319 B.TVP	7319 BT
95	250	55	251	245	3400	3400	13.5	7419 BM	7419 CBM	7419 B.MP	7419 BM
95	250	55	251	245	3400	3400	13.5	7419 BM	7419 GAM	7419 B.MP	7419 BM
95	250	55	251	245	3400	3400	13.5	7419 BM	7419 M	7419 B.MP	7419 BM
100	180	34	135	122	4000	4300	3.61	7220 BM	7220 BECBM	7220 B.MP.UA	7220 BM
100	180	34	143	134	4500	4500	3.29	7220 BT	7220 BECBP	7220 B.TVP.UA	7220 BT
100	180	34	135	122	4000	4000	3.38	7220 BW	7220 BECBY	7220 B.JP.UA	7220 BW
100	180	34	135	122	4000	4300	3.61	7220 BM	7220 BECCM	7220 B.MP.UA	7220 BM
100	180	34	135	122	4000	4000	3.29	7220 BT	7220 BEP	7220 B.TVP	7220 BT
100	180	34	135	122	4000	4000	3.38	7220 BM	7220 BEY	7220 B.MP	7220 BM
100	215	47	216	208	4000	4000	8	7320 BM	7320 BECBM	7320 B.MP.UA	7320 BM
100	215	47	216	208	4000	4000	7.17	7320 BT	7320 BECBP	7320 B.TVP.UA	7320 BT
100	215	47	203	190	3600	3600	7.15	7320 BW	7320 BECBY	7320 B.JP.UA	7320 BW
100	215	47	216	208	4000	4000	8	7320 BM	7320 BECCM	7320 B.MP.UA	7320 BM
100	215	47	203	190	3600	3600	8	7320 BW	7320 BEGAF	7320 B.JP.UA	7320 BW
100	215	47	216	208	4000	4000	8	7320 BM	7320 BEGAM	7320 B.MP.UA	7320 BM
100	215	47	216	208	4000	4000	7.17	7320 BT	7320 BEGAP	7320 B.TVP.UA	7320 BT
100	215	47	203	190	3600	3600	7.15	7320 BM	7320 BEGBY	7320 B.MP.UA	7320 BM
100	215	47	203	190	3600	3800	8	7320 BM	7320 BEM	7320 B.MP	7320 BM
100	215	47	203	190	3600	3600	7.17	7320 BT	7320 BEP	7320 B.TVP	7320 BT
100	215	47	203	190	3600	3600	7.15	7320 BM	7320 BEY	7320 B.MP	7320 BM
100	265	60	276	275	3200	3200	15.5	7420 BM	7420 CBM	7420 B.MP	7420 BM
105	190	36	148	137	3800	4000	4.18	7221 BM	7221 BECBM	7221 B.MP.UA	7221 BM
105	190	36	156	150	4300	4300	3.82	7221 BT	7221 BECBP	7221 B.TVP.UA	7221 BT
105	190	36	148	137	3800	3800	3.82	7221 BT	7221 BEP	7221 B.TVP	7221 BT
105	225	49	203	193	3400	3600	9.12	7321 BM	7321 BECBM	7321 B.MP.UA	7321 BM
105	225	49	228	228	3800	3800	8.46	7321 BT	7321 BECBP	7321 B.TVP.UA	7321 BT
105	225	49	203	193	3400	3600	9.12	7321 BM	7321 BEGAM	7321 B.MP.UA	7321 BM
105	225	49	212	208	3400	3400	8.46	7321 BT	7321 BEP	7321 B.TVP	7321 BT
110	200	38	153	143	3600	3800	4.95	7222 BM	7222 BECBM	7222 B.MP.UA	7222 BM
110	200	38	170	166	4000	4000	4.6	7222 BT	7222 BECBP	7222 B.TVP.UA	7222 BT
110	200	38	163	153	3600	3600	4.75	7222 BW	7222 BECBY	7222 B.JP.UA	7222 BW
110	200	38	153	143	3600	3800	4.95	7222 BM	7222 BECCM	7222 B.MP.UA	7222 BM
110	200	38	153	143	3600	3600	4.95	7222 BW	7222 BEGAF	7222 B.JP.UA	7222 BW
110	200	38	153	143	3600	3600	4.95	7222 BW	7222 BEGBF	7222 B.JP.UA	7222 BW
110	200	38	153	143	3600	3800	4.95	7222 BM	7222 BEM	7222 B.MP	7222 BM
110	200	38	163	153	3600	3600	4.6	7222 BT	7222 BEP	7222 B.TVP	7222 BT
110	240	50	225	224	3200	3400	10.7	7322 BM	7322 BECBM	7322 B.MP.UA	7322 BM
110	240	50	240	245	3600	3600	9.69	7322 BT	7322 BECBP	7322 B.TVP.UA	7322 BT
110	240	50	225	224	3200	3200	9.69	7322 BW	7322 BECBY	7322 B.JP.UA	7322 BW
110	240	50	225	224	3200	3400	10.7	7322 BM	7322 BECCM	7322 B.MP.UA	7322 BM
110	240	50	225	224	3200	3400	10.7	7322 BM	7322 BEGAM	7322 B.MP.UA	7322 BM
110	240	50	225	224	3200	3400	10.7	7322 BM	7322 BEGBM	7322 B.MP.UA	7322 BM
110	240	50	225	224	3200	3400	10.7	7322 BM	7322 BEM	7322 B.MP	7322 BM
110	240	50	225	224	3200	3200	9.69	7322 BT	7322 BEP	7322 B.TVP	7322 BT
110	240	50	225	224	3200	3200	9.69	7322 BM	7322 BEY	7322 B.MP	7322 BM
120	180	28	87.1	93	3800	4000	2.4	7024 BM	7024 BGM	7024 B.MP	7024 BM
120	215	40	165	163	3400	3600	5.89	7224 BM	7224 BECBM	7224 B.MP.UA	7224 BM
120	215	40	165	163	3400	3600	5.89	7224 BM	7224 BEGAM	7224 B.MP	7224 BM
120	215	40	165	163	3400	3600	5.89	7224 BM	7224 BM	7224 B.MP	7224 BM

ANGULAR CONTACT BALL BEARINGS Single Row

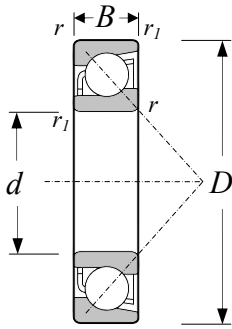
Table 28
Bore Diameter 120mm - 400mm



Principal Dimensions			Basic Load Ratings		Speed Ratings		Mass	Designations			
d	D	B	Dynamic C	Static C ₀	Ref. Speed	Limiting Speed		Local	SKF	FAG	NSK
mm	mm	mm	kN		r/min	r/min	kg				
120	260	55	238	250	3000	3200	13.8	7324 BM	7324 BCBM	7324 B.MP.UA	7324 BM
120	260	55	238	250	3000	3200	13.8	7324 BM	7324 BGBM	7324 B.MP	7324 BM
130	230	40	186	193	3200	3400	6.76	7226 BM	7226 BCBM	7226 B.MP.UA	7226 BM
130	230	40	186	193	3200	3400	6.76	7226 BM	7226 BGAM	7226 B.MP	7226 BM
130	230	40	186	193	3200	3400	6.76	7226 BM		7226 B.MP	7226 BM
130	280	58	276	305	2800	2800	17.1	7326 BM	7326 BCBM	7326 B.MP.UA	7326 BM
130	280	58	296	305	2800	2800	17.1	7326 BM	7326 BM	7326 B.MP	7326 BM
140	210	33	111	125	3200	3400	3.85	7028 BM	7028 BGM	7028 B.MP	7028 BM
140	250	42	199	212	2800	3000	8.83	7228 BM	7228 BCBM	7228 B.MP.UA	7228 BM
140	250	42	199	212	2800	3000	8.83	7228 BM	7228 BM	7228 B.MP	7228 BM
140	300	62	302	345	2600	2600	21.3	7328 BM	7328 BCBM	7328 B.MP.UA	7328 BM
150	225	35	119	132	3000	3200	4.7	7030 BM	7030 BGM	7030 B.MP	7030 BM
150	270	45	216	240	2600	2800	10.8	7230 BM	7230 BCBM	7230 B.MP.UA	7230 BM
150	270	45	216	240	2600	2800	10.8	7230 BM	7230 BGAM	7230 B.MP	7230 BM
150	320	65	332	390	2400	2400	25	7330 BM	7330 BCBM	7330 B.MP.UA	7330 BM
160	290	48	255	300	2400	2600	13.6	7232 BM	7232 BCBM	7232 B.MP.UA	7232 BM
160	340	68	358	440	2200	2400	30.3	7332 BM	7332 BCBM	7332 B.MP.UA	7332 BM
170	310	52	281	345	2400	2400	16.7	7234 BM	7234 BCBM	7234 B.MP.UA	7234 BM
170	360	72	390	490	2000	2200	34.6	7334 BM	7334 BCBM	7334 B.MP.UA	7334 BM
180	280	46	195	240	2400	2600	10	7036 BM	7036 BGM	7036 B.MP	7036 BM
180	320	52	291	375	2200	2400	17.6	7236 BM	7236 BCAM	7236 B.MP.UA	7236 BM
180	320	52	291	375	2200	2400	17.6	7236 BM	7236 BCBM	7236 B.MP.UA	7236 BM
180	380	75	410	540	2000	2000	40	7336 BM	7336 BCBM	7336 B.MP.UA	7336 BM
190	340	55	307	405	2000	2200	21.9	7238 BM	7238 BCBM	7238 B.MP.UA	7238 BM
190	400	78	442	600	1900	1900	48.3	7338 BM	7338 BCBM	7338 B.MP.UA	7338 BM
200	360	58	325	430	1800	2000	25	7240 BM	7240 BCBM	7240 B.MP.UA	7240 BM
200	420	80	462	655	1800	1800	52.8	7340 BM	7340 BCBM	7340 B.MP.UA	7340 BM
220	340	56	255	345	2000	2000	18	7044 BM	7044 BGM	7044 B.MP	7044 BM
220	400	65	390	560	1800	1800	35.2	7244 BM	7244 BCBM	7244 B.MP.UA	7244 BM
220	460	88	494	720	1600	1700	70	7344 BM	7344 BCBM	7344 B.MP.UA	7344 BM
240	360	56	260	375	1800	1900	19	7048 BM	7048 BGM	7048 B.MP	7048 BM
240	440	72	364	540	1600	1700	49	7248 BM	7248 BCBM	7248 B.MP.UA	7248 BM
240	500	95	559	865	1400	1500	88.5	7348 BM	7348 BCBM	7348 B.MP.UA	7348 BM
260	480	80	507	780	1400	1500	66	7252 BM	7252 BM	7252 B.MP	7252 BM
280	420	65	319	500	1500	1600	30	7056 BM	7056 BGM	7056 B.MP	7056 BM
280	500	80	520	850	1400	1400	69.5	7256 BM	7256 BM	7256 B.MP	7256 BM
300	460	74	377	630	1300	1500	42.5	7060 BM	7060 BGM	7060 B.MP	7060 BM
320	440	56	351	585	1500	1600	25.5	71964 A5	71964 AC	71964 E	71964 A5
320	480	74	390	670	1300	1400	44.5	7064 BM	7064 BGM	7064 B.MP	7064 BM
340	520	82	449	815	1200	1300	61.5	7068 BM	7068 BGM	7068 B.MP	7068 BM
340	620	92	702	1340	1100	1100	125	7268 BM	7268 BGM	7268 B.MP	7268 BM
360	480	56	338	610	1400	1500	28.5	71972 AM	71972 AMB	71972 A.MP	71972 AM
360	480	56	302	550	1400	1500	28.5	71972 BM	71972 BM	71972 B.MP	71972 BM
360	540	82	520	950	1300	1300	62.5	7072 AM	7072 AM	7072 AMP	7072 AM
360	650	95	650	1250	1000	1100	145	7272 BM	7272 BM	7272 B.MP	7272 BM
380	480	31	190	345	1300	1400	13.5	70876 AM	70876 AMB	70876 A.MP	70876 AM
380	560	82	507	950	1200	1300	65.5	7076 AM	7076 AM	7076 AMP	7076 AM
380	560	82	468	880	1100	1200	65.5	7076 BM	7076 BM	7076 B.MP	7076 BM
400	540	65	423	780	1200	1300	42	71980 AM	71980 AM	71980 AMP	71980 AM
400	600	90	605	1180	950	1200	90.5	7080 AM	7080 AM	7080 AMP	7080 AM

ANGULAR CONTACT BALL BEARINGS Single Row

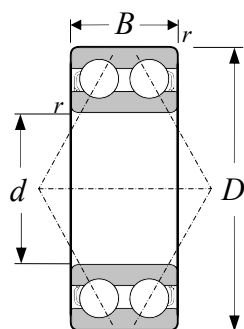
Table 29
Bore Diameter 400mm - 1250mm



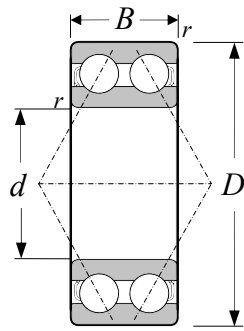
Principal Dimensions			Basic Load Ratings		Speed Ratings		Mass	Designations			
d	D	B	C	C ₀	Ref. Speed	Limiting Speed		Local	SKF	FAG	NSK
mm			kN		r/min		kg				
400	600	90	527	1020	1000	1100	90.5	7080 BM	7080 BM	7080 B.M.P	7080 BM
400	720	103	728	1500	900	950	190	7280 BM	7280 BM	7280 B.M.P	7280 BM
420	560	65	423	800	1200	1200	44.5	71984 AM	71984 AM	71984 AMP	71984 AM
420	560	65	364	670	1200	1200	44.5	71984 BM	71984 BM	71984 B.M.P	71984 BM
420	620	90	605	1180	1100	1100	95	7084 AM	7084 AM	7084 AMP	7084 AM
420	620	90	540	1060	1000	1000	95	7084 BM	7084 BGM	7084 B.M.P	7084 BM
440	650	94	650	1320	1000	1100	100	7088 AM	7088 AM	7088 AMP	7088 AM
440	650	94	572	1180	950	950	100	7088 BM	7088 BM	7088 B.M.P	7088 BM
460	580	37	265	560	1100	1100	24.5	70892 AM	70892 AM	70892 AMP	70892 AM
460	680	100	689	1460	950	1000	120	7092 AM	7092 AM	7092 AMP	7092 AM
460	680	100	618	1290	900	900	120	7092 BM	7092 BM	7092 B.M.P	7092 BM
480	700	100	702	1530	950	1000	125	7096 AM	7096 AM	7096 AMP	7096 AM
480	700	100	624	1340	850	900	125	7096 BM	7096 BM	7096 B.M.P	7096 BM
500	620	37	276	620	1000	1000	27	708/500 AM	708/500 AMB	708/500 A.M.P	708/500 AM
500	620	56	390	850	1000	1000	38	718/500 AM	718/500 AMB	718/500 A.M.P	718/500 AM
500	720	100	715	1600	900	950	130	70/500 AM	70/500 AM	70/500 AMP	70/500 AM
500	720	100	637	1400	800	850	130	70/500 BM	70/500 BM	70/500 B.M.P	70/500 BM
530	650	56	390	900	950	1000	39.5	718/530 AM	718/530 AMB	718/530 A.M.P	718/530 AM
530	780	112	832	1900	800	850	175	70/530 AM	70/530 AM	70/530 AMP	70/530 AM
530	780	112	741	1700	750	800	180	70/530 BM	70/530 BM	70/530 B.M.P	70/530 BM
560	680	56	397	930	850	900	41.5	718/560 AM	718/560 AMB	718/560 A.M.P	718/560 AM
560	750	85	592	1290	800	850	105	719/560 AM	719/560 AMB	719/560 A.M.P	719/560 AM
560	820	115	904	2160	750	800	195	70/560 AM	70/560 AMB	70/560 A.M.P	70/560 AM
600	730	42	338	735	800	850	38.5	708/600 AM	708/600 AMB	708/600 A.M.P	708/600 AM
600	730	60	449	1100	800	850	47	718/600 AM	718/600 AMB	718/600 A.M.P	718/600 AM
630	920	128	956	2450	560	700	270	70/630 AM	70/630 AMB	70/630 A.M.P	70/630 AM
670	820	69	527	1250	700	750	77	718/670 AM	718/670 AMB	718/670 A.M.P	718/670 AM
670	980	136	1170	3100	560	600	340	70/670 AM	70/670 AMB	70/670 A.M.P	70/670 AM
710	870	74	572	1560	630	670	93.5	718/710 AM	718/710 AMB	718/710 A.M.P	718/710 AM
710	1030	140	1190	3250	560	600	370	70/710 AM	70/710 AMB	70/710 A.M.P	70/710 AM
750	1090	150	1300	3650	530	560	445	70/750 AM	70/750 AMB	70/750 A.M.P	70/750 AM
800	1150	155	1330	3800	480	500	500	70/800 AM	70/800 AMB	70/800 A.M.P	70/800 AM
850	1030	82	689	1860	500	530	140	718/850 AM	718/850 AMB	718/850 A.M.P	718/850 AM
850	1220	165	1530	4650	450	480	595	70/850 AM	70/850 AMB	70/850 A.M.P	70/850 AM
900	1280	170	1560	4900	400	430	665	70/900 AM	70/900 AMB	70/900 A.M.P	70/900 AM
950	1360	180	1630	5200	380	400	805	70/950 AM	70/950 AMB	70/950 A.M.P	70/950 AM
1000	1220	100	923	2750	400	430	245	718/1000 AM	718/1000 AMB	718/1000 A.M.P	718/1000 AM
1000	1420	185	1630	5400	360	380	890	70/1000 AM	70/1000 AMB	70/1000 A.M.P	70/1000 AM
1060	1500	195	1680	5700	320	340	1050	70/1060 AM	70/1060 AMB	70/1060 A.M.P	70/1060 AM
1120	1360	106	1060	3750	340	360	320	718/1120 AM	718/1120 AMB	718/1120 A.M.P	718/1120 AM
1120	1580	200	1720	5850	300	320	1150	70/1120 AM	70/1120 AMB	70/1120 A.M.P	70/1120 AM
1180	1660	212	1740	6200	280	280	1350	70/1180 AM	70/1180 AMB	70/1180 A.M.P	70/1180 AM
1250	1500	80	806	2700	280	300	295	708/1250 AM	708/1250 AMB	708/1250 A.M.P	708/1250 AM
1250	1500	112	1140	3900	280	300	390	718/1250 AM	718/1250 AMB	718/1250 A.M.P	718/1250 AM
1250	1750	218	1780	6550	240	260	1600	70/1250 AM	70/1250 AMB	70/1250 A.M.P	70/1250 AM

ANGULAR CONTACT BALL BEARINGS Double Row

Table 30
Bore Diameter 10mm - 25mm



Principal Dimensions			Basic Load Ratings		Speed Ratings		Mass	Designations			
d	D	B	Dynamic	Static	Ref. Speed	Limiting Speed		Local	SKF	FAG	NSK
mm			C	C ₀	r/min		kg				
10	30	14	7.61	4.3	-	17000	0.051	3200 2RSTNG	3200 A-2RS1TN9/MT33	3200 19RSR.TVH	3200 2RSTNG
10	30	14	7.61	4.3	22000	24000	0.051	3200 2ZTN	3200 A-2ZTN9/MT33	3200	3200 2ZTN
10	30	14	7.61	4.3	22000	24000	0.051	3200 BTNG	3200 ATN9	3200 TVH	3200 BTNG
10	30	14.3	7.61	4.3	-	17000	0.051	5200 2RSTNG	5200 A-2RS1TN9	5200 2RSR.TVH	5200 2RSTNG
10	30	14.3	7.61	4.3	22000	24000	0.051	5200 2ZTN	5200 A-2ZTN9	5200	5200 2ZTN
10	30	14.3	7.61	4.3	22000	24000	0.051	5200 BTNG	5200 ATN9	5200 TVH	5200 BTNG
12	32	15.9	10.1	5.6	-	15000	0.058	3201 2RSTNG	3201 A-2RS1TN9/MT33	3201 20RSR.TVH	3201 2RSTNG
12	32	15.9	10.1	5.6	20000	22000	0.058	3201 2ZTN	3201 A-2ZTN9/MT33	3201	3201 2ZTN
12	32	15.9	10.1	5.6	20000	22000	0.058	3201 BTNG	3201 ATN9	3201 TVH	3201 BTNG
12	32	15.9	10.1	5.6	-	15000	0.058	5201 2RSTNG	5201 A-2RS1TN9	5201 3RSR.TVH	5201 2RSTNG
12	32	15.9	10.1	5.6	20000	22000	0.058	5201 2ZTN	5201 A-2ZTN9	5201	5201 2ZTN
12	32	15.9	10.1	5.6	20000	22000	0.058	5201 BTNG	5201 ATN9	5201 TVH	5201 BTNG
15	35	15.9	11.2	6.8	-	14000	0.066	3202 2RSTNG	3202 A-2RS1TN9/MT33	3202 21RSR.TVH	3202 2RSTNG
15	35	15.9	11.2	6.8	17000	18000	0.066	3202 2ZTN	3202 A-2ZTN9/MT33	3202	3202 2ZTN
15	35	15.9	11.2	6.8	17000	18000	0.066	3202 BTNG	3202 ATN9	3202 TVH	3202 BTNG
15	35	15.9	11.2	6.8	-	14000	0.066	5202 2RSTNG	5202 A-2RS1TN9	5202 4RSR.TVH	5202 2RSTNG
15	35	15.9	11.2	6.8	17000	18000	0.066	5202 2ZTN	5202 A-2ZTN9	5202	5202 2ZTN
15	35	15.9	11.2	6.8	17000	18000	0.066	5202 BTNG	5202 ATN9	5202 TVH	5202 BTNG
15	42	19	15.1	9.3	-	12000	0.13	3302 2RSTNG	3302 A-2RS1TN9/MT33	3302 22RSR.TVH	3302 2RSTNG
15	42	19	15.1	9.3	15000	16000	0.13	3302 2ZTN	3302 A-2ZTN9/MT33	3302	3302 2ZTN
15	42	19	15.1	9.3	15000	16000	0.13	3302 BTNG	3302 ATN9	3302 TVH	3302 BTNG
17	40	17.5	14.3	8.8	-	12000	0.096	3203 2RSTNG	3203 A-2RS1TN9/MT33	3203 23RSR.TVH	3203 2RSTNG
17	40	17.5	14.3	8.8	15000	16000	0.1	3203 2ZTN	3203 A-2ZTN9/MT33	3203	3203 2ZTN
17	40	17.5	14.3	8.8	15000	16000	0.095	3203 BTNG	3203 ATN9	3203 TVH	3203 BTNG
17	40	17.5	14.3	8.8	-	12000	0.096	5203 2RSTNG	5203 A-2RS1TN9	5203 5RSR.TVH	5203 2RSTNG
17	40	17.5	14.3	8.8	15000	16000	0.1	5203 2ZTN	5203 A-2ZTN9	5203	5203 2ZTN
17	40	17.5	14.3	8.8	15000	16000	0.095	5203 BTNG	5203 ATN9	5203 TVH	5203 BTNG
17	47	22.2	21.6	12.7	-	11000	0.18	3303 2RSTNG	3303 A-2RS1TN9/MT33	3303 24RSR.TVH	3303 2RSTNG
17	47	22.2	21.6	12.7	14000	14000	0.18	3303 2ZTN	3303 A-2ZTN9/MT33	3303	3303 2ZTN
17	47	22.2	21.6	12.7	14000	14000	0.18	3303 BTNG	3303 ATN9	3303 TVH	3303 BTNG
20	47	20.6	20	12	14000	14000	0.16	3204	3204 A	3204 A	3204
20	47	20.6	20	12	-	10000	0.14	3204 2RS	3204 A-2RS1/MT33	3204 2RS	3204 2RS
20	47	20.6	20	12	-	10000	0.16	3204 2RSTNG	3204 A-2RS1TN9/MT33	3204 6RSR.TVH	3204 2RSTNG
20	47	20.6	20	12	14000	14000	0.15	3204 2Z	3204 A-2Z/MT33	3204	3204 2Z
20	47	20.6	20	12	14000	14000	0.16	3204 2ZTN	3204 A-2ZTN9/MT33	3204	3204 2ZTN
20	47	20.6	20	12	14000	14000	0.15	3204 BTNG	3204 ATN9	3204 TVH	3204 BTNG
20	47	20.6	20	12	14000	14000	0.16	5204	5204 A	5204 A	5204
20	47	20.6	20	12	-	10000	0.14	5204 2RS	5204 A-2RS1	5204	5204 2RS
20	47	20.6	20	12	14000	14000	0.15	5204 2Z	5204 A-2Z	5204	5204 2Z
20	52	22.2	23.6	14.6	13000	13000	0.2	3304	3304 A	3304 A	3304
20	52	22.2	23.6	14.6	-	9000	0.21	3304 2RS	3304 A-2RS1/MT33	3304 2RS	3304 2RS
20	52	22.2	23.6	14.6	-	9000	0.22	3304 2RSTNG	3304 A-2RS1TN9/MT33	3304 7RSR.TVH	3304 2RSTNG
20	52	22.2	23.6	14.6	13000	13000	0.21	3304 2Z	3304 A-2Z/MT33	3304	3304 2Z
20	52	22.2	23.6	14.6	13000	13000	0.22	3304 2ZTN	3304 A-2ZTN9/MT33	3304	3304 2ZTN
20	52	22.2	23.6	14.6	13000	13000	0.22	3304 BTNG	3304 ATN9	3304 TVH	3304 BTNG
20	52	22.2	23.6	14.6	13000	13000	0.2	5304	5304 A	5304 A	5304
20	52	22.2	23.6	14.6	-	9000	0.21	5304 2RS	5304 A-2RS1	5304	5304 2RS
20	52	22.2	23.6	14.6	13000	13000	0.21	5304 2Z	5304 A-2Z	5304	5304 2Z
25	52	20.6	21.6	14.3	12000	12000	0.19	3205	3205 A	3205 A	3205
25	52	20.6	21.6	14.3	-	8500	0.18	3205 2RS	3205 A-2RS1/MT33	3205 2RS	3205 2RS



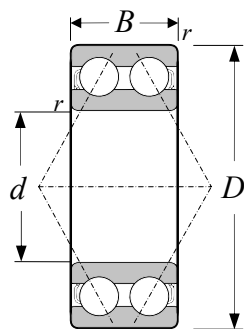
ANGULAR CONTACT BALL BEARINGS Double Row

Table 31
Bore Diameter 25mm - 35mm

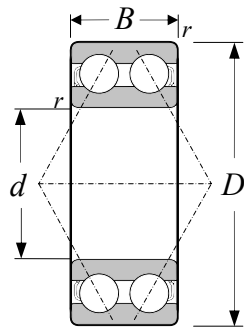
Principal Dimensions			Basic Load Ratings		Speed Ratings		Mass	Designations			
d	D	B	Dynamic	Static	Ref. Speed	Limiting Speed		Local	SKF	FAG	NSK
mm			C	C ₀	r/min		kg				
25	52	20.6	21.6	14.3	-	8500	0.18	3205 2RSTNG	3205 A-2RS1TN9/MT33	3205 8RSR.TVH	3205 2RSTNG
25	52	20.6	21.6	14.3	12000	12000	0.18	3205 2Z	3205 A-2Z/MT33	3205	3205 2Z
25	52	20.6	21.6	14.3	12000	12000	0.18	3205 2ZTN	3205 A-2ZTN9/MT33	3205	3205 2ZTN
25	52	20.6	21.6	14.3	12000	12000	0.18	3205 BTNG	3205 ATN9	3205 TVH	3205 BTNG
25	52	20.6	21.6	14.3	12000	12000	0.19	5205	5205 A	5205 A	5205
25	52	20.6	21.6	14.3	-	8500	0.18	5205 2RS	5205 A-2RS1	5205	5205 2RS
25	52	20.6	21.6	14.3	12000	12000	0.18	5205 2Z	5205 A-2Z	5205	5205 2Z
25	52	20.6	22.9	21.2	11000	12000	0.25	5205	5205 E	5205	5205
25	52	20.6	22.9	21.2	-	8500	0.25	5205 2RS	5205 E-2RS1	5205 2RS	5205 2RS
25	52	20.6	22.9	21.2	11000	12000	0.25	5205 2Z	5205 E-2Z	5205 2Z	5205 2Z
25	62	25.4	32	20.4	11000	11000	0.31	3305	3305 A	3305 A	3305
25	62	25.4	32	20.4	-	7500	0.35	3305 2RSTNG	3305 A-2RS1TN9/MT33	3305 9RSR.TVH	3305 2RSTNG
25	62	25.4	32	20.4	11000	11000	0.35	3305 2Z	3305 A-2Z/MT33	3305	3305 2Z
25	62	25.4	32	20.4	11000	11000	0.36	3305 2ZTN	3305 A-2ZTN9/MT33	3305	3305 2ZTN
25	62	25.4	32	20.4	11000	11000	0.35	3305 BTNG	3305 ATN9	3305 TVH	3305 BTNG
25	62	25.4	32	20.4	11000	11000	0.31	5305	5305 A	5305 A	5305
25	62	25.4	32	20.4	-	7500	0.35	5305 2RS	5305 A-2RS1	5305	5305 2RS
25	62	25.4	32	20.4	11000	11000	0.35	5305 2Z	5305 A-2Z	5305	5305 2Z
25	62	25.4	34.1	30.5	10000	10000	0.39	5305	5305 E	5305	5305
25	62	25.4	34.1	30.5	-	7500	0.39	5305 2RS	5305 E-2RS1	5305 2RS	5305 2RS
25	62	25.4	34.1	30.5	10000	10000	0.39	5305 2Z	5305 E-2Z	5305 2Z	5305 2Z
30	62	23.8	30	20.4	10000	10000	0.29	3206	3206 A	3206 A	3206
30	62	23.8	30	20.4	-	7500	0.27	3206 2RS	3206 A-2RS1/MT33	3206 2RS	3206 2RS
30	62	23.8	30	20.4	-	7500	0.29	3206 2RSTNG	3206 A-2RS1TN9/MT33	3206 10RSR.TVH	3206 2RSTNG
30	62	23.8	30	20.4	10000	10000	0.27	3206 2Z	3206 A-2Z/MT33	3206	3206 2Z
30	62	23.8	30	20.4	10000	10000	0.29	3206 2ZTN	3206 A-2ZTN9/MT33	3206	3206 2ZTN
30	62	23.8	30	20.4	10000	10000	0.29	3206 BTNG	3206 ATN9	3206 TVH	3206 BTNG
30	62	23.8	30	20.4	10000	10000	0.29	5206	5206 A	5206 A	5206
30	62	23.8	30	20.4	-	7500	0.27	5206 2RS	5206 A-2RS1	5206	5206 2RS
30	62	23.8	30	20.4	10000	10000	0.27	5206 2Z	5206 A-2Z	5206	5206 2Z
30	62	23.8	30.3	28	9500	10000	0.35	5206	5206 E	5206	5206
30	62	23.8	30.3	28	-	7500	0.35	5206 2RS	5206 E-2RS1	5206 2RS	5206 2RS
30	62	23.8	30.3	28	9500	10000	0.35	5206 2Z	5206 E-2Z	5206 2Z	5206 2Z
30	72	30.2	41.5	27.5	9000	9000	0.59	3306	3306 A	3306 A	3306
30	72	30.2	41.5	27.5	-	6300	0.52	3306 2RSTNG	3306 A-2RS1TN9/MT33	3306 11RSR.TVH	3306 2RSTNG
30	72	30.2	41.5	27.5	9000	9000	0.52	3306 2Z	3306 A-2Z/MT33	3306	3306 2Z
30	72	30.2	41.5	27.5	9000	9000	0.52	3306 2ZTN	3306 A-2ZTN9/MT33	3306	3306 2ZTN
30	72	30.2	41.5	27.5	9000	9000	0.53	3306 BTNG	3306 ATN9	3306 TVH	3306 BTNG
30	72	30.2	41.5	27.5	9000	9000	0.59	5306	5306 A	5306 A	5306
30	72	30.2	41.5	27.5	-	6300	0.53	5306 2RS	5306 A-2RS1	5306	5306 2RS
30	72	30.2	41.5	27.5	9000	9000	0.52	5306 2Z	5306 A-2Z	5306	5306 2Z
30	72	30.2	46.8	43	8500	9000	0.59	5306	5306 E	5306	5306
30	72	30.2	46.8	43	-	6300	0.59	5306 2RS	5306 E-2RS1	5306 2RS	5306 2RS
30	72	30.2	46.8	43	8500	9000	0.59	5306 2Z	5306 E-2Z	5306 2Z	5306 2Z
35	72	27	40	28	9000	9000	0.4	3207	3207 A	3207 A	3207
35	72	27	40	28	-	6300	0.44	3207 2RS	3207 A-2RS1/MT33	3207 2RS	3207 2RS
35	72	27	40	28	-	6300	0.44	3207 2RSTNG	3207 A-2RS1TN9/MT33	3207 12RSR.TVH	3207 2RSTNG
35	72	27	40	28	9000	9000	0.44	3207 2Z	3207 A-2Z/MT33	3207	3207 2Z
35	72	27	40	28	9000	9000	0.44	3207 2ZTN	3207 A-2ZTN9/MT33	3207	3207 2ZTN
35	72	27	40	28	9000	9000	0.44	3207 BTNG	3207 ATN9	3207 TVH	3207 BTNG

ANGULAR CONTACT BALL BEARINGS Double Row

Table 32
Bore Diameter 35mm - 45mm



Principal Dimensions			Basic Load Ratings		Speed Ratings		Mass	Designations			
d	D	B	Dynamic	Static	Ref. Speed	Limiting Speed		Local	SKF	FAG	NSK
mm			C	C ₀	r/min		kg				
35	72	27	40	28	9000	9000	0.4	5207	5207 A	5207 A	5207
35	72	27	40	28	-	6300	0.44	5207 2RS	5207 A-2RS1	5207	5207 2RS
35	72	27	40	28	9000	9000	0.44	5207 2Z	5207 A-2Z	5207	5207 2Z
35	72	27	39.1	36.5	8000	8500	0.54	5207	5207 E	5207	5207
35	72	27	39.1	36.5	-	6300	0.54	5207 2RS	5207 E-2RS1	5207 2RS	5207 2RS
35	72	27	39.1	36.5	8000	8500	0.54	5207 2Z	5207 E-2Z	5207 2Z	5207 2Z
35	80	34.9	52	35.5	8500	8500	0.71	3307	3307 A	3307 A	3307
35	80	34.9	52	35.5	-	6000	0.73	3307 2RSTNG	3307 A-2RS1TN9/MT33	3307 13RSR.TVH	3307 2RSTNG
35	80	34.9	52	35.5	8500	8500	0.73	3307 2Z	3307 A-2Z/MT33	3307	3307 2Z
35	80	34.9	52	35.5	8500	8500	0.73	3307 2ZTN	3307 A-2ZTN9/MT33	3307	3307 2ZTN
35	80	34.9	52	35.5	8500	8500	0.71	3307 BTNG	3307 ATN9	3307 TVH	3307 BTNG
35	80	34.9	52.7	41.5	7500	8000	0.79	3307	3307 DJ1	3307	3307
35	80	34.9	52	35.5	8500	8500	0.71	5307	5307 A	5307 A	5307
35	80	34.9	52	35.5	-	6000	0.73	5307 2RS	5307 A-2RS1	5307	5307 2RS
35	80	34.9	52	35.5	8500	8500	0.73	5307 2Z	5307 A-2Z	5307	5307 2Z
35	80	34.9	52.3	48	7500	8000	0.86	5307	5307 E	5307	5307
35	80	34.9	52.3	48	-	6000	0.86	5307 2RS	5307 E-2RS1	5307 2RS	5307 2RS
35	80	34.9	52.3	48	7500	8000	0.86	5307 2Z	5307 E-2Z	5307 2Z	5307 2Z
40	80	30.2	47.5	34	8000	8000	0.58	3208	3208 A	3208 A	3208
40	80	30.2	47.5	34	-	5600	0.57	3208 2RS	3208 A-2RS1/MT33	3208 2RS	3208 2RS
40	80	30.2	47.5	34	-	5600	0.57	3208 2RSTNG	3208 A-2RS1TN9/MT33	3208 14RSR.TVH	3208 2RSTNG
40	80	30.2	47.5	34	8000	8000	0.57	3208 2Z	3208 A-2Z/MT33	3208	3208 2Z
40	80	30.2	47.5	34	8000	8000	0.57	3208 2ZTN	3208 A-2ZTN9/MT33	3208	3208 2ZTN
40	80	30.2	47.5	34	8000	8000	0.58	3208 BTNG	3208 ATN9	3208 TVH	3208 BTNG
40	80	30.2	47.5	34	8000	8000	0.58	5208	5208 A	5208 A	5208
40	80	30.2	47.5	34	-	5600	0.57	5208 2RS	5208 A-2RS1	5208	5208 2RS
40	80	30.2	47.5	34	8000	8000	0.57	5208 2Z	5208 A-2Z	5208	5208 2Z
40	80	30.2	49.5	49	7500	8000	0.73	5208	5208 E	5208	5208
40	80	30.2	49.5	49	-	5600	0.73	5208 2RS	5208 E-2RS1	5208 2RS	5208 2RS
40	80	30.2	49.5	49	7500	8000	0.73	5208 2Z	5208 E-2Z	5208 2Z	5208 2Z
40	90	36.5	64	44	7500	7500	1.05	3308	3308 A	3308 A	3308
40	90	36.5	64	44	-	5000	0.93	3308 2RSTNG	3308 A-2RS1TN9/MT33	3308 15RSR.TVH	3308 2RSTNG
40	90	36.5	64	44	7500	7500	0.93	3308 2Z	3308 A-2Z/MT33	3308	3308 2Z
40	90	36.5	64	44	7500	7500	0.93	3308 2ZTN	3308 A-2ZTN9/MT33	3308	3308 2ZTN
40	90	36.5	64	44	7500	7500	1.05	3308 BTNG	3308 ATN9	3308 TVH	3308 BTNG
40	90	36.5	68.9	64	6700	7000	1.15	3308 M	3308 DMA	3308 M	3308 M
40	90	36.5	49.4	41.5	6700	7000	1.2	3308	3308 DNRCBM	3308	3308
40	90	36.5	68.9	64	6700	7000	1.05	3308	3308 DTN9	3308	3308
40	90	36.5	64	44	7500	7500	1.05	5308	5308 A	5308 A	5308
40	90	36.5	64	44	-	5000	0.93	5308 2RS	5308 A-2RS1	5308	5308 2RS
40	90	36.5	64	44	7500	7500	0.93	5308 2Z	5308 A-2Z	5308	5308 2Z
40	90	36.5	67.1	65.5	6700	7000	1.15	5308	5308 E	5308	5308
40	90	36.5	67.1	65.5	-	5000	1.15	5308 2RS	5308 E-2RS1	5308 2RS	5308 2RS
40	90	36.5	67.1	65.5	6700	7000	1.15	5308 2Z	5308 E-2Z	5308 2Z	5308 2Z
40	110	49.2	88.4	60	5600	6000	2.3	5408	5408 A	5408 A	5408
45	85	30.2	51	39	7500	7500	0.64	3209	3209 A	3209 A	3209
45	85	30.2	51	39	-	5300	0.63	3209 2RS	3209 A-2RS1/MT33	3209 2RS	3209 2RS
45	85	30.2	51	39	-	5300	0.63	3209 2RSTNG	3209 A-2RS1TN9/MT33	3209 16RSR.TVH	3209 2RSTNG
45	85	30.2	51	39	7500	7500	0.63	3209 2Z	3209 A-2Z/MT33	3209	3209 2Z
45	85	30.2	51	39	7500	7500	0.63	3209 2ZTN	3209 A-2ZTN9/MT33	3209	3209 2ZTN



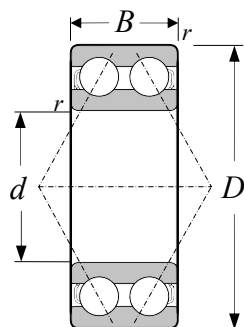
ANGULAR CONTACT BALL BEARINGS Double Row

Table 33
Bore Diameter 45mm - 55mm

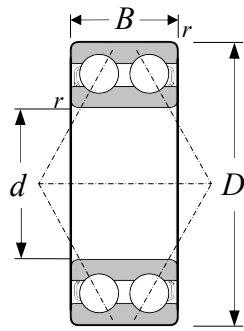
Principal Dimensions			Basic Load Ratings		Speed Ratings		Mass	Designations			
d	D	B	Dynamic	Static	Ref. Speed	Limiting Speed		Local	SKF	FAG	NSK
mm			C	C ₀	r/min		kg				
45	85	30.2	51	39	7500	7500	0.63	3209 BTNG	3209 ATN9	3209 TVH	3209 BTNG
45	85	30.2	51	39	7500	7500	0.64	5209	5209 A	5209 A	5209
45	85	30.2	51	39	-	5300	0.63	5209 2RS	5209 A-2RS1	5209	5209 2RS
45	85	30.2	51	39	7500	7500	0.63	5209 2Z	5209 A-2Z	5209	5209 2Z
45	85	30.2	51.2	54	6700	7000	0.77	5209	5209 E	5209	5209
45	100	39.7	75	53	6700	6700	1.4	3309	3309 A	3309 A	3309
45	100	39.7	75	53	-	4800	1.4	3309 2RS	3309 A-2RS1/MT33	3309 2RS	3309 2RS
45	100	39.7	75	53	6700	6700	1.4	3309 2Z	3309 A-2Z/MT33	3309	3309 2Z
45	100	39.7	75	53	6700	6700	1.4	3309 BTNG	3309 ATN9	3309 TVH	3309 BTNG
45	100	39.7	79.3	69.5	6000	6300	1.6	3309 M	3309 DMA	3309 M	3309 M
45	100	39.7	61.8	52	6000	6300	1.5	3309	3309 DNRCBM	3309	3309
45	100	39.7	75	53	-	4800	1.4	5309 2RS	5309 A-2RS1	5309	5309 2RS
45	100	39.7	75	53	6700	6700	1.4	5309 2Z	5309 A-2Z	5309	5309 2Z
45	100	39.7	80.9	80	6000	6300	1.5	5309	5309 E	5309	5309
45	100	39.7	80.9	80	-	4800	1.5	5309 2RS	5309 E-2RS1	5309 2RS	5309 2RS
45	100	39.7	80.9	80	6000	6300	1.5	5309 2Z	5309 E-2Z	5309 2Z	5309 2Z
45	120	54	112	82	5300	5600	3	5409	5409 A	5409 A	5409
50	90	30.2	51	39	7000	7000	0.66	3210	3210 A	3210 A	3210
50	90	30.2	51	39	-	4800	0.65	3210 2RS	3210 A-2RS1/MT33	3210 2RS	3210 2RS
50	90	30.2	51	39	-	4800	0.65	3210 2RSTNG	3210 A-2RS1TN9/MT33	3210 17RSR.TVH	3210 2RSTNG
50	90	30.2	51	39	7000	7000	0.65	3210 2Z	3210 A-2Z/MT33	3210	3210 2Z
50	90	30.2	51	39	7000	7000	0.65	3210 2ZTN	3210 A-2ZTN9/MT33	3210	3210 2ZTN
50	90	30.2	51	39	7000	7000	0.66	3210 BTNG	3210 ATN9	3210 TVH	3210 BTNG
50	90	30.2	51	39	7000	7000	0.66	5210	5210 A	5210 A	5210
50	90	30.2	51	39	-	4800	0.65	5210 2RS	5210 A-2RS1	5210	5210 2RS
50	90	30.2	51	39	7000	7000	0.65	5210 2Z	5210 A-2Z	5210	5210 2Z
50	90	30.2	53.9	58.5	6300	6700	0.82	5210	5210 E	5210	5210
50	90	30.2	53.9	58.5	-	4800	0.82	5210 2RS	5210 E-2RS1	5210 2RS	5210 2RS
50	90	30.2	53.9	58.5	6300	6700	0.82	5210 2Z	5210 E-2Z	5210 2Z	5210 2Z
50	110	44.4	90	64	6000	6000	1.95	3310	3310 A	3310 A	3310
50	110	44.4	90	64	-	4300	1.95	3310 2RS	3310 A-2RS1/MT33	3310 2RS	3310 2RS
50	110	44.4	90	64	6000	6000	1.95	3310 2Z	3310 A-2Z/MT33	3310	3310 2Z
50	110	44.4	90	64	6000	6000	1.95	3310 BTNG	3310 ATN9	3310 TVH	3310 BTNG
50	110	44.4	93.6	85	5300	5600	2.15	3310 M	3310 DMA	3310 M	3310 M
50	110	44.4	81.9	69.5	5300	5600	1.95	3310	3310 DNRCBM	3310	3310
50	110	44.4	90	64	-	4300	1.95	5310 2RS	5310 A-2RS1	5310	5310 2RS
50	110	44.4	90	64	6000	6000	1.95	5310 2Z	5310 A-2Z	5310	5310 2Z
50	110	44.4	95.2	95	5300	5600	2	5310	5310 E	5310	5310
50	110	44.4	95.2	95	-	4300	2	5310 2RS	5310 E-2RS1	5310 2RS	5310 2RS
50	110	44.4	95.2	95	5300	5600	2	5310 2Z	5310 E-2Z	5310 2Z	5310 2Z
50	130	58.7	143	104	4800	5000	3.7	5410	5410 A	5410 A	5410
55	100	33.3	60	47.5	6300	6300	1.05	3211	3211 A	3211 A	3211
55	100	33.3	60	47.5	-	4500	1.05	3211 2RS	3211 A-2RS1/MT33	3211 2RS	3211 2RS
55	100	33.3	60	47.5	6300	6300	1.05	3211 2Z	3211 A-2Z/MT33	3211	3211 2Z
55	100	33.3	60	47.5	6300	6300	1.05	3211 BTNG	3211 ATN9	3211 TVH	3211 BTNG
55	100	33.3	60	47.5	6300	6300	1.05	5211	5211 A	5211 A	5211
55	100	33.3	60	47.5	-	4500	1.05	5211 2RS	5211 A-2RS1	5211	5211 2RS
55	100	33.3	60	47.5	6300	6300	1.05	5211 2Z	5211 A-2Z	5211	5211 2Z
55	100	33.3	66	76.5	5600	6000	1.15	5211	5211 E	5211	5211
55	100	33.3	66	76.5	-	4300	1.15	5211 2RS	5211 E-2RS1	5211 2RS	5211 2RS

ANGULAR CONTACT BALL BEARINGS Double Row

Table 34
Bore Diameter 55mm - 70mm



Principal Dimensions			Basic Load Ratings		Speed Ratings		Mass	Designations			
d	D	B	Dynamic	Static	Ref. Speed	Limiting Speed		Local	SKF	FAG	NSK
mm			C	C ₀	r/min		kg				
55	100	33.3	66	76.5	5600	6000	1.15	5211 2Z	5211 E-2Z	5211 2Z	5211 2Z
55	120	49.2	112	81.5	5300	5300	2.55	3311	3311 A	3311 A	3311
55	120	49.2	112	81.5	-	3800	2.55	3311 2RS	3311 A-2RS1/MT33	3311 2RS	3311 2RS
55	120	49.2	112	81.5	5300	5300	2.55	3311 2Z	3311 A-2Z/MT33	3311	3311 2Z
55	120	49.2	112	81.5	5300	5300	2.55	3311 BTNG	3311 ATN9	3311 TVH	3311 BTNG
55	120	49.2	111	100	4800	5000	2.8	3311 M	3311 DMA	3311 M	3311 M
55	120	49.2	95.6	83	4800	5000	2.55	3311	3311 DNRCBM	3311	3311
55	120	49.2	111	100	4800	5000	2.8	3311	3311 DTN9	3311	3311
55	120	49.2	112	81.5	5300	5300	2.55	5311 2Z	5311 A-2Z	5311	5311 2Z
55	120	49.2	119	122	5000	5300	2.65	5311 E	5311 E	5311	5311
55	120	49.2	119	122	5000	5300	2.65	5311 2Z	5311 E-2Z	5311 2Z	5311 2Z
55	140	63.5	146	108	4300	4500	4.7	5411	5411 A	5411 A	5411
60	110	36.5	73.5	58.5	5600	5600	1.4	3212	3212 A	3212 A	3212
60	110	36.5	73.5	58.5	-	4000	1.4	3212 2RS	3212 A-2RS1/MT33	3212 2RS	3212 2RS
60	110	36.5	73.5	58.5	-	4000	1.4	3212 2RSTNG	3212 A-2RS1TN9/MT33	3212 18RSR.TVH	3212 2RSTNG
60	110	36.5	73.5	58.5	5600	5600	1.4	3212 2Z	3212 A-2Z/MT33	3212	3212 2Z
60	110	36.5	73.5	58.5	5600	5600	1.4	3212 BTNG	3212 ATN9	3212 TVH	3212 BTNG
60	110	36.5	73.5	58.5	5600	5600	1.4	5212	5212 A	5212 A	5212
60	110	36.5	73.5	58.5	-	4000	1.4	5212 2RS	5212 A-2RS1	5212	5212 2RS
60	110	36.5	73.5	58.5	5600	5600	1.4	5212 2Z	5212 A-2Z	5212	5212 2Z
60	110	36.5	78.1	88	5000	5300	1.5	5212	5212 E	5212	5212
60	110	36.5	78.1	88	-	4000	1.5	5212 2RS	5212 E-2RS1	5212 2RS	5212 2RS
60	110	36.5	78.1	88	5000	5300	1.5	5212 2Z	5212 E-2Z	5212 2Z	5212 2Z
60	130	54	127	95	5000	5000	3.25	3312	3312 A	3312 A	3312
60	130	54	127	95	5000	5000	3.25	3312 2Z	3312 A-2Z/MT33	3312	3312 2Z
60	130	54	127	95	5000	5000	3.25	5312	5312 A	5312 A	5312
60	130	54	127	95	5000	5000	3.25	5312 2Z	5312 A-2Z	5312	5312 2Z
60	130	54	134	143	4500	4800	3.3	5312	5312 E	5312	5312
60	130	54	134	143	4500	4800	3.3	5312 2Z	5312 E-2Z	5312 2Z	5312 2Z
60	150	66.7	159	122	4000	4300	5.7	5412	5412 A	5412 A	5412
65	120	38.1	80.6	73.5	4500	4800	1.75	3213	3213 A	3213 A	3213
65	120	38.1	80.6	73.5	-	3600	1.75	3213 2RS	3213 A-2RS1/MT33	3213 2RS	3213 2RS
65	120	38.1	80.6	73.5	4500	4800	1.75	3213 2Z	3213 A-2Z/MT33	3213	3213 2Z
65	120	38.1	80.6	73.5	4500	4800	1.75	5213	5213 A	5213 A	5213
65	120	38.1	80.6	73.5	-	3600	1.75	5213 2RS	5213 A-2RS1	5213	5213 2RS
65	120	38.1	80.6	73.5	4500	4800	1.75	5213 2Z	5213 A-2Z	5213	5213 2Z
65	120	38.1	88	106	4800	5000	1.95	5213	5213 E	5213	5213
65	120	38.1	88	106	4800	5000	1.95	5213 2Z	5213 E-2Z	5213 2Z	5213 2Z
65	140	58.7	146	110	4500	4500	4.1	3313	3313 A	3313 A	3313
65	140	58.7	146	110	4500	4500	4.1	3313 2Z	3313 A-2Z/MT33	3313	3313 2Z
65	140	58.7	138	122	4300	4500	4	3313	3313 DNRCBM	3313	3313
65	140	58.7	146	110	4500	4500	4.1	5313	5313 A	5313 A	5313
65	140	58.7	146	110	4500	4500	4.1	5313 2Z	5313 A-2Z	5313	5313 2Z
65	140	58.7	154	163	4300	4500	4.2	5313	5313 E	5313	5313
65	140	58.7	154	163	4300	4500	4.2	5313 2Z	5313 E-2Z	5313 2Z	5313 2Z
65	160	71.4	195	163	3800	4000	6.75	5413	5413 A	5413 A	5413
70	125	39.7	88.4	80	4300	4500	1.9	3214	3214 A	3214 A	3214
70	125	39.7	88.4	80	4300	4500	1.9	3214 2Z	3214 A-2Z/MT33	3214	3214 2Z
70	125	39.7	88.4	80	4300	4500	1.9	5214	5214 A	5214 A	5214
70	125	39.7	88.4	80	4300	4500	1.9	5214 2Z	5214 A-2Z	5214	5214 2Z



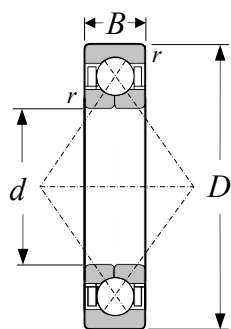
ANGULAR CONTACT BALL BEARINGS Double Row

Table 35
Bore Diameter 70mm - 110mm

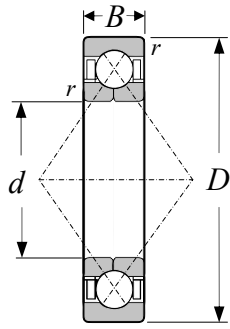
Principal Dimensions			Basic Load Ratings		Speed Ratings		Mass	Designations			
d	D	B	Dynamic	Static	Ref. Speed	Limiting Speed		Local	SKF	FAG	NSK
mm			C	C ₀	r/min		kg				
70	125	39.7	101	125	4500	4800	2.15	5214	5214 E	5214	5214
70	125	39.7	101	125	4500	4800	2.15	5214 2Z	5214 E-2Z	5214 2Z	5214 2Z
70	150	63.5	163	125	4300	4300	5.05	3314	3314 A	3314 A	3314
70	150	63.5	163	125	4300	4300	5.05	3314 2Z	3314 A-2Z/MT33	3314	3314 2Z
70	150	63.5	163	125	4300	4300	5.05	5314	5314 A	5314 A	5314
70	150	63.5	163	125	4300	4300	5.05	5314 2Z	5314 A-2Z	5314	5314 2Z
70	150	63.5	172	186	4000	4300	5	5314	5314 E	5314	5314
70	180	79.4	199	170	3400	3600	9.9	5414	5414 A	5414 A	5414
75	130	41.3	95.6	88	4300	4500	2.1	3215	3215 A	3215 A	3215
75	130	41.3	95.6	88	4300	4500	2.1	3215 2Z	3215 A-2Z/MT33	3215	3215 2Z
75	130	41.3	95.6	88	4300	4500	2.1	5215	5215 A	5215 A	5215
75	130	41.3	95.6	88	-	3200	2.1	5215 2RS	5215 A-2RS1	5215	5215 2RS
75	130	41.3	95.6	88	4300	4500	2.1	5215 2Z	5215 A-2Z	5215	5215 2Z
75	130	41.3	108	137	4300	4500	2.5	5215	5215 E	5215	5215
75	130	41.3	108	137	4300	4500	2.5	5215 2Z	5215 E-2Z	5215 2Z	5215 2Z
75	160	68.3	176	140	4000	4000	5.55	3315	3315 A	3315 A	3315
75	160	68.3	176	140	4000	4000	5.6	3315 2Z	3315 A-2Z/MT33	3315	3315 2Z
75	160	68.3	176	140	4000	4000	5.6	5315 2Z	5315 A-2Z	5315	5315 2Z
75	160	68.3	187	208	3600	3800	6.35	5315	5315 E	5315	5315
80	140	44.4	106	95	4000	4300	2.65	3216	3216 A	3216 A	3216
80	140	44.4	106	95	4000	4300	2.65	5216	5216 A	5216 A	5216
80	140	44.4	106	95	-	3000	2.65	5216 2RS	5216 A-2RS1	5216	5216 2RS
80	140	44.4	128	160	4000	4000	3	5216	5216 E	5216	5216
80	140	44.4	128	160	4000	4000	3	5216 2Z	5216 E-2Z	5216 2Z	5216 2Z
80	170	68.3	182	156	3400	3600	6.8	3316	3316 A	3316 A	3316
80	170	68.3	190	196	3400	3600	7.55	3316 M	3316 DMA	3316 M	3316 M
80	170	68.3	182	156	3400	3600	6.8	5316	5316 A	5316 A	5316
80	170	68.3	201	236	3400	3600	7.25	5316	5316 E	5316	5316
85	150	49.2	124	110	3600	3800	3.4	3217	3217 A	3217 A	3217
85	150	49.2	124	110	3600	3800	3.4	5217	5217 A	5217 A	5217
85	150	49.2	124	110	3600	3800	3.4	5217 2Z	5217 A-2Z	5217	5217 2Z
85	150	49.2	142	176	3600	3800	3.7	5217	5217 E	5217	5217
85	180	73	195	176	3200	3400	8.3	3317	3317 A	3317 A	3317
85	180	73	195	176	3200	3400	8.3	5317	5317 A	5317 A	5317
90	160	52.4	130	120	3400	3600	4.15	3218	3218 A	3218 A	3218
90	160	52.4	130	120	3400	3600	4.15	5218 2Z	5218 A-2Z	5218	5218 2Z
90	160	52.4	151	193	3400	3600	4.55	5218	5218 E	5218	5218
90	190	73	195	180	3000	3200	9.25	3318	3318 A	3318 A	3318
90	190	73	225	250	3000	3200	10	3318 M	3318 DMA	3318 M	3318 M
90	190	73	195	180	3000	3200	9.25	5318	5318 A	5318 A	5318
95	170	55.6	159	146	3200	3400	5	3219	3219 A	3219 A	3219
95	170	55.6	159	146	3200	3400	5	5219	5219 A	5219 A	5219
95	200	77.8	225	216	2800	3000	11	3319	3319 A	3319 A	3319
95	200	77.8	242	275	2800	3000	12	3319 M	3319 DMA	3319 M	3319 M
100	180	60.3	178	166	3000	3200	6.1	3220	3220 A	3220 A	3220
100	180	60.3	178	166	3000	3200	6.1	5220	5220 A	5220 A	5220
100	215	82.6	255	255	2600	2800	13.5	3320	3320 A	3320 A	3320
100	215	82.6	260	305	2600	2800	15	3320 M	3320 DMA	3320 M	3320 M
110	200	69.8	212	212	2800	2800	8.8	3222	3222 A	3222 A	3222
110	200	69.8	212	212	2800	2800	8.8	5222	5222 A	5222 A	5222
110	240	92.1	291	305	2400	2600	19	3322	3322 A	3322 A	3322
110	240	92.1	307	375	2400	2600	21	3322 M	3322 DMA	3322 M	3322 M

ANGULAR CONTACT BALL BEARINGS Four Point Contact Bearings

Table 36
Bore Diameter 15mm - 75mm



Principal Dimensions			Basic Load Ratings		Speed Ratings		Mass	Designations			
d	D	B	Dynamic C	Static C ₀	Ref. Speed	Limiting Speed		Local	SKF	FAG	NSK
mm			kN		r/min		kg				
15	35	11	12.7	8.3	22000	36000	0.062	QJ202 M	QJ202 N2MA	QJ202 MPA	QJ202 M
17	40	12	15.9	10.6	19000	30000	0.082	QJ203 M	QJ203 N2MA	QJ203 MPA	QJ203 M
17	47	14	23.4	15	17000	28000	0.14	QJ303 M	QJ303 N2MA	QJ303 MPA	QJ303 M
20	52	15	32	21.6	18000	24000	0.18	QJ304 M	QJ304 MA	QJ304 MPA	QJ304 M
20	52	15	32	21.6	18000	24000	0.18	QJ304 M	QJ304 N2MA	QJ304 MPA	QJ304 M
20	52	15	32	21.6	20000	24000	0.16	QJ304 T	QJ304 N2PHAS	QJ304 TVPB1	QJ304 T
25	52	15	27	21.2	16000	22000	0.16	QJ205 M	QJ205 MA	QJ205 MPA	QJ205 M
25	52	15	27	21.2	16000	22000	0.16	QJ205 M	QJ205 N2MA	QJ205 MPA	QJ205 M
25	62	17	39	28	12000	20000	0.29	QJ305 M	QJ305 MA	QJ305 MPA	QJ305 M
25	62	17	39	28	12000	20000	0.29	QJ305 M	QJ305 N2MA	QJ305 MPA	QJ305 M
30	62	16	37.5	30.5	14000	19000	0.24	QJ206 M	QJ206 MA	QJ206 MPA	QJ206 M
30	62	16	37.5	30.5	14000	19000	0.24	QJ206 M	QJ206 N2MA	QJ206 MPA	QJ206 M
30	72	19	53	41.5	12000	17000	0.42	QJ306 M	QJ306 MA	QJ306 MPA	QJ306 M
30	72	19	53	41.5	12000	17000	0.42	QJ306 M	QJ306 N2MA	QJ306 MPA	QJ306 M
30	72	19	53	41.5	14000	17000	0.37	QJ306 T	QJ306 N2PHAS	QJ306 TVPB1	QJ306 T
35	72	17	49	41.5	12000	17000	0.36	QJ207 M	QJ207 N2MA	QJ207 MPA	QJ207 M
35	80	21	64	51	11000	15000	0.57	QJ307 M	QJ307 MA	QJ307 MPA	QJ307 M
35	80	21	64	51	11000	15000	0.57	QJ307 M	QJ307 N2MA	QJ307 MPA	QJ307 M
35	80	21	64	51	13000	15000	0.48	QJ307 T	QJ307 N2PHAS	QJ307 TVPB1	QJ307 T
40	80	18	56	49	11000	15000	0.45	QJ208 M	QJ208 MA	QJ208 MPA	QJ208 M
40	80	18	56	49	11000	15000	0.45	QJ208 M	QJ208 N2MA	QJ208 MPA	QJ208 M
40	90	23	78	64	10000	14000	0.78	QJ308 M	QJ308 MA	QJ308 MPA	QJ308 M
40	90	23	78	64	10000	14000	0.78	QJ308 M	QJ308 N2MA	QJ308 MPA	QJ308 M
45	85	19	63	56	10000	14000	0.52	QJ209 M	QJ209 MA	QJ209 MPA	QJ209 M
45	100	25	100	83	9000	12000	1.05	QJ309 M	QJ309 MA	QJ309 MPA	QJ309 M
45	100	25	100	83	9000	12000	1.05	QJ309 M	QJ309 N2MA	QJ309 MPA	QJ309 M
45	100	25	100	83	10000	12000	0.9	QJ309 T	QJ309 N2PHAS	QJ309 TVPB1	QJ309 T
50	90	20	65.5	61	9000	13000	0.59	QJ210 M	QJ210 MA	QJ210 MPA	QJ210 M
50	110	27	118	100	8000	11000	1.35	QJ310 M	QJ310 MA	QJ310 MPA	QJ310 M
50	110	27	118	100	9000	11000	1.35	QJ310 T	QJ310 PHAS	QJ310 TVPB1	QJ310 T
55	100	21	85	83	8000	11000	0.77	QJ211 M	QJ211 MA	QJ211 MPA	QJ211 M
55	100	21	85	83	8000	11000	0.77	QJ211 M	QJ211 N2MA	QJ211 MPA	QJ211 M
55	120	29	137	118	7000	10000	1.75	QJ311 M	QJ311 MA	QJ311 MPA	QJ311 M
55	120	29	137	118	7000	10000	1.75	QJ311 M	QJ311 N2MA	QJ311 MPA	QJ311 M
60	110	22	96.5	93	7500	10000	0.99	QJ212 M	QJ212 MA	QJ212 MPA	QJ212 M
60	110	22	96.5	93	7500	10000	0.99	QJ212 M	QJ212 N2MA	QJ212 MPA	QJ212 M
60	110	22	96.5	93	8500	10000	0.89	QJ212 T	QJ212 N2PHAS	QJ212 TVPB1	QJ212 T
60	130	31	156	137	6700	9000	2.15	QJ312 M	QJ312 MA	QJ312 MPA	QJ312 M
60	130	31	156	137	6700	9000	2.15	QJ312 M	QJ312 N2MA	QJ312 MPA	QJ312 M
65	120	23	110	112	6700	9500	1.2	QJ213 M	QJ213 MA	QJ213 MPA	QJ213 M
65	120	23	110	112	6700	9500	1.2	QJ213 M	QJ213 N2MA	QJ213 MPA	QJ213 M
65	140	33	176	156	6300	8500	2.7	QJ313 M	QJ313 MA	QJ313 MPA	QJ313 M
70	125	24	120	122	6300	9000	1.3	QJ214 M	QJ214 MA	QJ214 MPA	QJ214 M
70	125	24	120	122	6300	9000	1.3	QJ214 M	QJ214 N2MA	QJ214 MPA	QJ214 M
70	125	24	120	122	7500	9000	1.19	QJ214 T	QJ214 N2PHAS	QJ214 TVPB1	QJ214 T
70	150	35	200	180	5600	8000	3.15	QJ314 M	QJ314 MA	QJ314 MPA	QJ314 M
70	150	35	200	180	5600	8000	3.15	QJ314 M	QJ314 N2MA	QJ314 MPA	QJ314 M
70	150	35	200	180	6700	8000	2.78	QJ314 T	QJ314 N2PHAS	QJ314 TVPB1	QJ314 T
75	130	25	125	132	6300	8500	1.45	QJ215 M	QJ215 MA	QJ215 MPA	QJ215 M
75	130	25	125	132	6300	8500	1.45	QJ215 M	QJ215 N2MA	QJ215 MPA	QJ215 M



ANGULAR CONTACT BALL BEARINGS

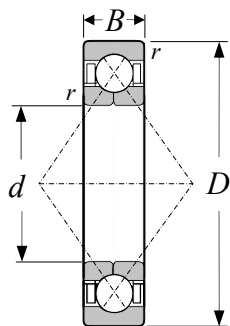
Four Point Contact Bearings

Table 37
Bore Diameter 75mm - 280mm

Principal Dimensions			Basic Load Ratings		Speed Ratings		Mass	Designations			
d	D	B	Dynami c	Static C ₀	Ref. Speed	Limifing Speed		Local	SKF	FAG	NSK
mm			kN		r/min		kg				
75	130	25	125	132	7000	8500	1.27	QJ215 T	QJ215 N2PHAS	QJ215 TVPB1	QJ215 T
75	160	37	216	200	5300	7500	3.9	QJ315 M	QJ315 N2MA	QJ315 MPA	QJ315 M
80	140	26	146	156	5600	8000	1.85	QJ216 M	QJ216 MA	QJ216 MPA	QJ216 M
80	140	26	146	156	5600	8000	1.85	QJ216 M	QJ216 N2MA	QJ216 MPA	QJ216 M
80	170	39	232	228	5000	7000	4.6	QJ316 M	QJ316 N2MA	QJ316 MPA	QJ316 M
85	130	22	85.2	102	5000	8000	1.1	QJ1017 M	QJ1017 N2MA	QJ1017 MPA	QJ1017 M
85	150	28	156	173	5300	7500	2.25	QJ217 M	QJ217 MA	QJ217 MPA	QJ217 M
85	150	28	156	173	5300	7500	2.25	QJ217 M	QJ217 N2MA	QJ217 MPA	QJ217 M
85	180	41	250	255	4800	6700	5.45	QJ317 M	QJ317 N2MA	QJ317 MPA	QJ317 M
90	160	30	186	200	5000	7000	2.75	QJ218 M	QJ218 N2MA	QJ218 MPA	QJ218 M
90	190	43	285	305	4500	6300	6.45	QJ318 M	QJ318 N2MA	QJ318 MPA	QJ318 M
95	170	32	212	232	4800	6700	3.35	QJ219 M	QJ219 N2MA	QJ219 MPA	QJ219 M
95	200	45	305	340	4300	6000	7.45	QJ319 M	QJ319 N2MA	QJ319 MPA	QJ319 M
100	180	34	236	265	4500	6300	4.05	QJ220 M	QJ220 N2MA	QJ220 MPA	QJ220 M
100	215	47	345	400	4000	5600	9.3	QJ320 M	QJ320 N2MA	QJ320 MPA	QJ320 M
105	160	26	124	156	4000	6700	2	QJ1021 M	QJ1021 N2MA	QJ1021 MPA	QJ1021 M
110	170	28	146	186	3800	6300	2.5	QJ1022 M	QJ1022 N2MA	QJ1022 MPA	QJ1022 M
110	200	38	280	325	4000	5600	5.6	QJ222 M	QJ222 N2MA	QJ222 MPA	QJ222 M
110	240	50	390	480	3600	4800	12.5	QJ322 M	QJ322 N2MA	QJ322 MPA	QJ322 M
120	215	40	300	365	3600	5000	6.95	QJ224 M	QJ224 N2MA	QJ224 MPA	QJ224 M
120	260	55	415	530	3200	4500	16	QJ324 M	QJ324 N2MA	QJ324 MPA	QJ324 M
130	230	40	310	400	3400	4800	7.75	QJ226 M	QJ226 N2MA	QJ226 MPA	QJ226 M
130	280	58	455	610	3000	4000	19.5	QJ326 M	QJ326 N2MA	QJ326 MPA	QJ326 M
140	250	42	345	475	3200	4300	9.85	QJ228 M	QJ228 N2MA	QJ228 MPA	QJ228 M
140	300	62	500	695	2800	3800	24	QJ328 M	QJ328 N2MA	QJ328 MPA	QJ328 M
150	225	35	216	305	2800	4500	5.25	QJ1030 M	QJ1030 N2MA	QJ1030 MPA	QJ1030 M
150	270	45	400	570	3000	4000	12.5	QJ230 M	QJ230 N2MA	QJ230 MPA	QJ230 M
150	320	65	530	765	2600	3600	29	QJ330 M	QJ330 N2MA	QJ330 MPA	QJ330 M
160	240	38	247	355	2600	4300	6.45	QJ1032 M	QJ1032 N2MA	QJ1032 MPA	QJ1032 M
160	290	48	450	670	2800	3800	15.5	QJ232 M	QJ232 N2MA	QJ232 MPA	QJ232 M
160	340	68	570	880	2400	3400	34.5	QJ332 M	QJ332 N2MA	QJ332 MPA	QJ332 M
170	310	52	455	720	2600	3400	19.5	QJ234 M	QJ234 N2MA	QJ234 MPA	QJ234 M
170	360	72	655	1040	2200	3200	41.5	QJ334 M	QJ334 N2MA	QJ334 MPA	QJ334 M
180	320	52	475	765	2400	3400	20.5	QJ236 M	QJ236 N2MA	QJ236 MPA	QJ236 M
180	380	75	680	1020	2200	3000	47.5	QJ336 M	QJ336 N2MA	QJ336 MPA	QJ336 M
190	290	46	338	510	2200	3400	11.5	QJ1038 M	QJ1038 N2MA	QJ1038 MPA	QJ1038 M
190	340	55	488	780	1900	3200	23.3	QJ238 M	QJ238 N2MA	QJ238 MPA	QJ238 M
190	400	78	702	1160	1700	2800	49	QJ338 M	QJ338 N2MA	QJ338 MPA	QJ338 M
200	310	51	390	620	2000	3200	15	QJ1040 M	QJ1040 N2MA	QJ1040 MPA	QJ1040 M
200	360	58	540	915	1800	3000	28.5	QJ240 M	QJ240 N2MA	QJ240 MPA	QJ240 M
200	360	70	520	865	1800	3000	32.5	QJ1240 M	QJ1240 N2MA	QJ1240 MPA	QJ1240 M
220	400	78	592	1020	1600	2600	45.5	QJ1244 M	QJ1244 N2MA	QJ1244 MPA	QJ1244 M
220	460	88	904	1660	1500	2400	78	QJ344 M	QJ344 N2/309829	QJ344 MPA	QJ344 M
220	460	88	780	1400	1500	2400	78	QJ344 M	QJ344 N2MA	QJ344 MPA	QJ344 M
240	440	72	650	1200	1500	2400	53	QJ248 M	QJ248 N2MA	QJ248 MPA	QJ248 M
240	440	85	663	1220	1500	2400	61	QJ1248 M	QJ1248 MA/344524	QJ1248 MPA	QJ1248 M
260	480	80	728	1430	1300	2200	68	QJ252 M	QJ252 N2MA	QJ252 MPA	QJ252 M
260	480	90	741	1460	1300	2200	78	QJ1252 M	QJ1252 MA	QJ1252 MPA	QJ1252 M
260	480	90	741	1460	1300	2200	78	QJ1252 M	QJ1252 N2MA	QJ1252 MPA	QJ1252 M
280	420	65	553	1060	1400	2400	33.5	QJ1056 M	QJ1056 N2MA	QJ1056 MPA	QJ1056 M

ANGULAR CONTACT BALL BEARINGS Four Point Contact Bearings

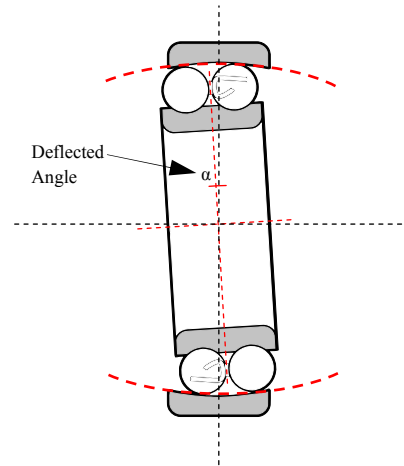
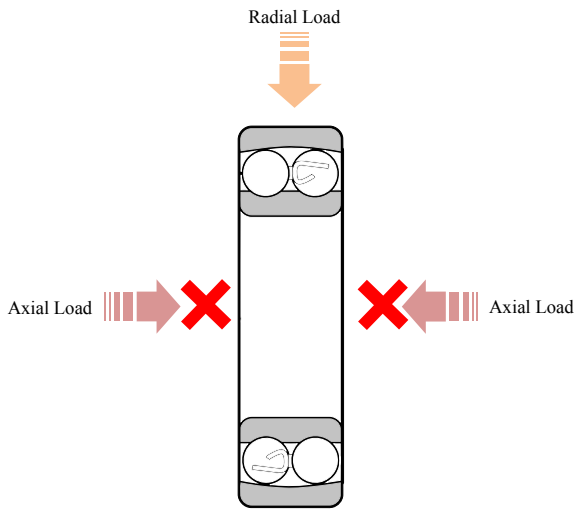
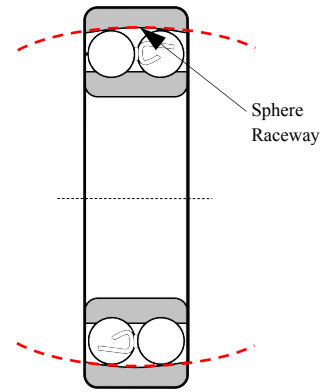
Table 38
Bore Diameter 280mm - 480mm



Principal Dimensions			Basic Load Ratings		Speed Ratings		Mass	Designations			
d	D	B	Dynami c	Static C ₀	Ref. Speed	Limifing Speed		Local	SKF	FAG	NSK
mm			kN		r/min		kg				
280	500	90	728	1460	1300	2000	82	QJ1256 M	QJ1256 N2MA	QJ1256 MPA	QJ1256 M
300	460	74	650	1340	1300	2200	47.5	QJ1060 M	QJ1060 MA	QJ1060 MPA	QJ1060 M
300	460	74	650	1340	1300	2200	47.5	QJ1060 M	QJ1060 N2MA	QJ1060 MPA	QJ1060 M
300	540	98	832	1760	1200	1900	105	QJ1260 M	QJ1260 N2MA	QJ1260 MPA	QJ1260 M
320	480	74	715	1530	1200	2000	50	QJ1064 M	QJ1064 MA	QJ1064 MPA	QJ1064 M
320	480	74	715	1530	1200	2000	50	QJ1064 M	QJ1064 N2MA	QJ1064 MPA	QJ1064 M
320	580	105	923	2040	1100	1700	130	QJ1264 M	QJ1264 N2MA	QJ1264 MPA	QJ1264 M
340	520	82	780	1700	1100	1800	67.5	QJ1068 M	QJ1068 N2MA	QJ1068 MPA	QJ1068 M
340	620	118	1060	2450	1000	1600	165	QJ1268 M	QJ1268 MA/344524	QJ1268 MPA	QJ1268 M
360	540	82	793	1800	1100	1700	70.5	QJ1072 M	QJ1072 N2MA	QJ1072 MPA	QJ1072 M
360	650	122	1110	2600	950	1500	190	QJ1272 M	QJ1272 N2MA	QJ1272 MPA	QJ1272 M
380	560	82	819	1900	1000	1700	73.5	QJ1076 M	QJ1076 N2MA	QJ1076 MPA	QJ1076 M
380	680	132	1170	2850	900	1400	220	QJ1276 M	QJ1276 N2MA	QJ1276 MPA	QJ1276 M
400	600	90	904	2160	950	1500	95.5	QJ1080 M	QJ1080 N2MA	QJ1080 MPA	QJ1080 M
400	720	140	1300	3250	800	1300	265	QJ1280 M	QJ1280 N2MA	QJ1280 MPA	QJ1280 M
420	560	65	637	1600	950	1600	51	QJ1984 M	QJ1984 MA	QJ1984 MPA	QJ1984 M
420	620	90	923	2280	900	1500	99.5	QJ1084 M	QJ1084 N2MA	QJ1084 MPA	QJ1084 M
420	760	150	1430	3750	750	1300	315	QJ1284 M	QJ1284 N2MA	QJ1284 MPA	QJ1284 M
440	600	74	761	1900	900	1500	65	QJ1988 M	QJ1988 N2MA	QJ1988 MPA	QJ1988 M
440	650	94	995	2500	850	1400	115	QJ1088 M	QJ1088 N2MA	QJ1088 MPA	QJ1088 M
440	790	155	1400	3750	750	1200	350	QJ1288 M	QJ1288 N2MA	QJ1288 MPA	QJ1288 M
460	680	100	1040	2650	800	1300	130	QJ1092 M	QJ1092 N2MA	QJ1092 MPA	QJ1092 M
460	830	165	1530	4250	700	1100	415	QJ1292 M	QJ1292 N2MA	QJ1292 MPA	QJ1292 M
480	700	100	1060	2800	750	1300	135	QJ1096 M	QJ1096 N2MA	QJ1096 MPA	QJ1096 M
480	870	170	1680	4750	670	1100	470	QJ1296 M	QJ1296 N2MA	QJ1296 MPA	QJ1296 M

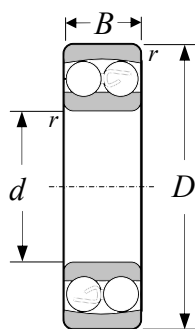
SELF-ALIGNING BALL BEARINGS

The outer ring of self-aligning ball bearing has s sphere raceways, the balls and the cage are allowed to have certain angle of deflect around the bearing center. This enabled the bearings to have self-aligning capability, and insensitive to misalignment of mounting shaft. Self-aligning ball bearings are mostly suitable for application where there is expected deflection or misalignment of shaft. Among all rolling bearings, self-aligning ball bearing has the lowest friction factor, which enables it to run cooler even at high speeds. However, self-aligning ball bearings do not accommodate any axial loads.

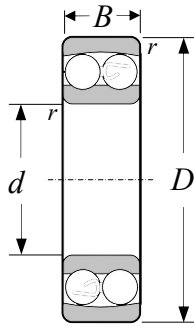


SELF-ALIGNING BALL BEARINGS
Cylindrical & Tapered Bore

Table 39
Bore Diameter 10mm - 30mm



Principal Dimensions			Basic Load Ratings		Speed Ratings		Mass	Designations			
d	D	B	Dynamic	Static	Ref. Speed	Limiting Speed		Local	SKF	FAG	NSK
mm			C	C ₀	r/min						
10	30	9	5.53	1.18	56000	36000	0.034	1200 TN	1200 ETN9	1200 TVH	1200 TN
10	30	14	5.53	1.18	-	17000	0.048	2200 2RSTN	2200 E-2RS1TN9	2200 K.2RS.TVH	2200 2RSTN
10	30	14	8.06	1.73	50000	34000	0.047	2200 TN	2200 ETN9	2200 TVH	2200 TN
12	32	10	6.24	1.43	50000	32000	0.04	1201 TN	1201 ETN9	1201 TVH	1201 TN
12	32	14	6.24	1.43	-	16000	0.053	2201 2RSTN	2201 E-2RS1TN9	2201 K.2RS.TVH	2201 2RSTN
12	32	14	8.52	1.9	45000	30000	0.053	2201 TN	2201 ETN9	2201 TVH	2201 TN
12	37	12	9.36	2.16	40000	28000	0.072	1301 M	1301 EM	1301 M	1301 M
12	37	12	9.36	2.16	40000	28000	0.067	1301 TN	1301 ETN9	1301 TVH	1301 TN
12	37	17	11.7	2.7	38000	28000	0.095	2301	2301	2301	2301
15	35	11	7.41	1.76	45000	28000	0.049	1202 TN	1202 ETN9	1202 TVH	1202 TN
15	35	14	7.41	1.76	-	14000	0.058	2202 2RSTN	2202 E-2RS1TN9	2202 K.2RS.TVH	2202 2RSTN
15	35	14	8.71	2.04	38000	26000	0.06	2202 TN	2202 ETN9	2202 TVH	2202 TN
15	42	13	10.8	2.6	34000	24000	0.094	1302 TN	1302 ETN9	1302 TVH	1302 TN
15	42	17	11.9	2.9	32000	24000	0.12	2302	2302	2302	2302
15	42	17	10.8	2.6	-	12000	0.11	2302 2RSTN	2302 E-2RS1TN9	2302 K.2RS.TVH	2302 2RSTN
17	40	12	8.84	2.2	38000	24000	0.073	1203 TN	1203 ETN9	1203 TVH	1203 TN
17	40	16	8.84	2.2	-	12000	0.089	2203 2RSTN	2203 E-2RS1TN9	2203 K.2RS.TVH	2203 2RSTN
17	40	16	10.6	2.55	34000	24000	0.088	2203 TN	2203 ETN9	2203 TVH	2203 TN
17	47	14	12.7	3.4	28000	20000	0.13	1303 M	1303 EM	1303 M	1303 M
17	47	14	12.7	3.4	28000	20000	0.12	1303 TN	1303 ETN9	1303 TVH	1303 TN
17	47	19	14.6	3.55	30000	22000	0.16	2303	2303	2303	2303
17	47	19	12.7	3.4	-	11000	0.16	2303 2RSTN	2303 E-2RS1TN9	2303 K.2RS.TVH	2303 2RSTN
17	47	19	14.6	3.55	30000	22000	0.18	2303 M	2303 M	2303 M	2303 M
20	47	14	12.7	3.4	32000	20000	0.12	1204 TN	1204 EKTN9	1204 K.TVH	1204 TN
20	47	14	12.7	3.4	32000	20000	0.12	1204 TN	1204 ETN9	1204 TVH	1204 TN
20	47	18	12.7	3.4	-	10000	0.14	2204 2RSTN	2204 E-2RS1TN9	2204 K.2RS.TVH	2204 2RSTN
20	47	18	16.8	4.15	28000	20000	0.14	2204 TN	2204 ETN9	2204 TVH	2204 TN
20	47	40	12.7	3.4	-	9000	0.18	11204 TN	11204 ETN9	11204 TVH	11204 TN
20	52	15	14.3	4	26000	18000	0.16	1304 TN	1304 ETN9	1304 TVH	1304 TN
20	52	21	14.3	4	-	9000	0.21	2304 2RSTN	2304 E-2RS1TN9	2304 K.2RS.TVH	2304 2RSTN
20	52	21	18.2	4.75	26000	19000	0.23	2304 M	2304 M	2304 M	2304 M
20	52	21	18.2	4.75	26000	19000	0.22	2304 TN	2304 TN	2304 TVH	2304 TN
25	52	15	14.3	4	28000	18000	0.14	1205 TN	1205 EKTN9	1205 K.TVH	1205 TN
25	52	15	14.3	4	28000	18000	0.14	1205 TN	1205 ETN9	1205 TVH	1205 TN
25	52	18	14.3	4	-	9000	0.16	2205 2RSTN	2205 E-2RS1KTN9	2205 K.2RS.TVH	2205 2RSTN
25	52	18	14.3	4	-	9000	0.16	2205 2RSTN	2205 E-2RS1TN9	2205 K.2RS.TVH	2205 2RSTN
25	52	18	16.8	4.4	26000	18000	0.16	2205 TN	2205 EKTN9	2205 K.TVH	2205 TN
25	52	18	16.8	4.4	26000	18000	0.16	2205 TN	2205 ETN9	2205 TVH	2205 TN
25	52	44	14.3	4	-	8000	0.22	11205 TN	11205 ETN9	11205 TVH	11205 TN
25	62	17	19	5.4	22000	15000	0.26	1305 TN	1305 EKTN9	1305 K.TVH	1305 TN
25	62	17	19	5.4	22000	15000	0.26	1305 TN	1305 ETN9	1305 TVH	1305 TN
25	62	24	19	5.4	-	7500	0.34	2305 2RSTN	2305 E-2RS1TN9	2305 K.2RS.TVH	2305 2RSTN
25	62	24	27	7.1	22000	16000	0.34	2305 TN	2305 ETN9	2305 TVH	2305 TN
25	62	24	24.2	6.55	22000	16000	0.36	2305 M	2305 M	2305 M	2305 M
30	62	16	15.6	4.65	24000	15000	0.22	1206 TN	1206 EKTN9	1206 K.TVH	1206 TN
30	62	16	15.6	4.65	24000	15000	0.24	1206 M	1206 EM	1206 M	1206 M
30	62	16	15.6	4.65	24000	15000	0.22	1206 TN	1206 ETN9	1206 TVH	1206 TN
30	62	20	15.6	4.65	-	7500	0.26	2206 2RSTN	2206 E-2RS1KTN9	2206 K.2RS.TVH	2206 2RSTN
30	62	20	15.6	4.65	-	7500	0.26	2206 2RSTN	2206 E-2RS1TN9	2206 K.2RS.TVH	2206 2RSTN
30	62	20	23.8	6.7	22000	15000	0.26	2206 TN	2206 EKTN9	2206 K.TVH	2206 TN



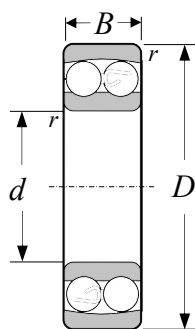
SELF-ALIGNING BALL BEARINGS
Cylindrical & Tapered Bore

Table 40
Bore Diameter 30mm - 50mm

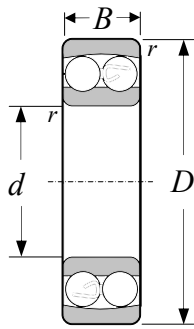
Principal Dimensions			Basic Load Ratings		Speed Ratings		Mass	Designations			
d	D	B	Dynamic	Static	Ref. Speed	Limiting Speed		Local	SKF	FAG	NSK
mm	mm	mm	C	C ₀	r/min	r/min	kg				
30	62	20	23.8	6.7	22000	15000	0.26	2206 TN	2206 ETN9	2206 TVH	2206 TN
30	72	19	22.5	6.8	19000	13000	0.39	1306 TN	1306 EKTN9	1306 K.TVH	1306 TN
30	72	19	22.5	6.8	19000	13000	0.39	1306 TN	1306 ETN9	1306 TVH	1306 TN
30	72	27	31.2	8.8	18000	13000	0.5	2306	2306	2306	2306
30	72	27	22.5	6.8	-	6700	0.51	2306 2RSTN	2306 E-2RS1TN9	2306 K.2RS.TVH	2306 2RSTN
30	72	27	31.2	8.8	18000	13000	0.5	2306 K	2306 K	2306 K	2306 K
30	72	27	31.2	8.8	18000	13000	0.55	2306 M	2306 M	2306 M	2306 M
35	72	17	19	6	20000	13000	0.32	1207 TN	1207 EKTN9	1207 K.TVH	1207 TN
35	72	17	19	6	20000	13000	0.32	1207 TN	1207 ETN9	1207 TVH	1207 TN
35	72	23	19	6	-	6300	0.41	2207 2RSTN	2207 E-2RS1KTN9	2207 K.2RS.TVH	2207 2RSTN
35	72	23	19	6	-	6300	0.41	2207 2RSTN	2207 E-2RS1TN9	2207 K.2RS.TVH	2207 2RSTN
35	72	23	30.7	8.8	18000	12000	0.4	2207 TN	2207 EKTN9	2207 K.TVH	2207 TN
35	72	23	30.7	8.8	18000	12000	0.4	2207 TN	2207 ETN9	2207 TVH	2207 TN
35	80	21	26.5	8.5	16000	11000	0.51	1307 TN	1307 EKTN9	1307 K.TVH	1307 TN
35	80	21	26.5	8.5	16000	11000	0.51	1307 TN	1307 ETN9	1307 TVH	1307 TN
35	80	31	26.5	8.5	-	5600	0.7	2307 2RSTN	2307 E-2RS1TN9	2307 K.2RS.TVH	2307 2RSTN
35	80	31	39.7	11.2	16000	12000	0.68	2307 TN	2307 EKTN9	2307 K.TVH	2307 TN
35	80	31	39.7	11.2	16000	12000	0.75	2307 M	2307 EM	2307 M	2307 M
35	80	31	39.7	11.2	16000	12000	0.68	2307 TN	2307 ETN9	2307 TVH	2307 TN
35	80	31	39.7	11.2	16000	12000	0.75	2307 EKTN	2307 KM	2307 K.M	2307 EKTN
40	80	18	19.9	6.95	18000	11000	0.42	1208 TN	1208 EKTN9	1208 K.TVH	1208 TN
40	80	18	19.9	6.95	18000	11000	0.42	1208 TN	1208 ETN9	1208 TVH	1208 TN
40	80	23	19.9	6.95	-	5600	0.5	2208 2RSTN	2208 E-2RS1KTN9	2208 K.2RS.TVH	2208 2RSTN
40	80	23	19.9	6.95	-	5600	0.5	2208 2RSTN	2208 E-2RS1TN9	2208 K.2RS.TVH	2208 2RSTN
40	80	23	31.9	10	16000	11000	0.51	2208 TN	2208 EKTN9	2208 K.TVH	2208 TN
40	80	23	31.9	10	16000	11000	0.51	2208 TN	2208 ETN9	2208 TVH	2208 TN
40	90	23	33.8	11.2	14000	9500	0.68	1308 TN	1308 EKTN9	1308 K.TVH	1308 TN
40	90	23	33.8	11.2	14000	9500	0.72	1308 M	1308 EM	1308 M	1308 M
40	90	23	33.8	11.2	14000	9500	0.68	1308 TN	1308 ETN9	1308 TVH	1308 TN
40	90	33	33.8	11.2	-	5000	0.96	2308 2RSTN	2308 E-2RS1TN9	2308 K.2RS.TVH	2308 2RSTN
40	90	33	54	16	14000	10000	0.9	2308 TN	2308 EKTN9	2308 K.TVH	2308 TN
40	90	33	54	16	14000	10000	0.99	2308 M	2308 EM	2308 M	2308 M
40	90	33	54	16	14000	10000	0.93	2308 TN	2308 ETN9	2308 TVH	2308 TN
45	85	19	22.9	7.8	17000	11000	0.47	1209 TN	1209 EKTN9	1209 K.TVH	1209 TN
45	85	19	22.9	7.8	17000	11000	0.47	1209 TN	1209 ETN9	1209 TVH	1209 TN
45	85	23	22.9	7.8	-	5300	0.53	2209 2RSTN	2209 E-2RS1KTN9	2209 K.2RS.TVH	2209 2RSTN
45	85	23	22.9	7.8	-	5300	0.53	2209 2RSTN	2209 E-2RS1TN9	2209 K.2RS.TVH	2209 2RSTN
45	85	23	32.5	10.6	15000	10000	0.55	2209 TN	2209 EKTN9	2209 K.TVH	2209 TN
45	85	23	32.5	10.6	15000	10000	0.55	2209 TN	2209 ETN9	2209 TVH	2209 TN
45	100	25	39	13.4	12000	8500	0.96	1309 TN	1309 EKTN9	1309 K.TVH	1309 TN
45	100	25	39	13.4	12000	8500	0.96	1309 TN	1309 ETN9	1309 TVH	1309 TN
45	100	36	39	13.4	-	4500	1.3	2309 2RSTN	2309 E-2RS1TN9	2309 K.2RS.TVH	2309 2RSTN
45	100	36	63.7	19.3	13000	9000	1.15	2309 TN	2309 EKTN9	2309 K.TVH	2309 TN
45	100	36	63.7	19.3	13000	9000	1.3	2309 M	2309 EM	2309 M	2309 M
45	100	36	63.7	19.3	13000	9000	1.25	2309 TN	2309 ETN9	2309 TVH	2309 TN
50	90	20	26.5	9.15	16000	10000	0.53	1210 TN	1210 EKTN9	1210 K.TVH	1210 TN
50	90	20	26.5	9.15	16000	10000	0.53	1210 TN	1210 ETN9	1210 TVH	1210 TN
50	90	23	22.9	8.15	-	4800	0.57	2210 2RSTN	2210 E-2RS1KTN9	2210 K.2RS.TVH	2210 2RSTN
50	90	23	22.9	8.15	-	4800	0.57	2210 2RSTN	2210 E-2RS1TN9	2210 K.2RS.TVH	2210 2RSTN
50	90	23	33.8	11.2	14000	9500	0.6	2210 TN	2210 EKTN9	2210 K.TVH	2210 TN

SELF-ALIGNING BALL BEARINGS
Cylindrical & Tapered Bore

Table 41
Bore Diameter 50mm - 75mm



Principal Dimensions			Basic Load Ratings		Speed Ratings		Mass	Designations			
d	D	B	Dynamic C	Static C ₀	Ref. Speed	Limiting Speed		Local	SKF	FAG	NSK
mm			kN		r/min		kg				
50	90	23	33.8	11.2	14000	9500	0.6	2210 TN	2210 ETN9	2210 TVH	2210 TN
50	110	27	43.6	14	12000	8000	1.2	1310 TN	1310 EKTN9	1310 K.TVH	1310 TN
50	110	27	43.6	14	12000	8000	1.2	1310 TN	1310 ETN9	1310 TVH	1310 TN
50	110	40	63.7	20	14000	9500	1.65	2310	2310	2310	2310
50	110	40	43.6	14	-	4000	1.65	2310 2RSTN	2310 E-2RS1TN9	2310 K.2RS.TVH	2310 2RSTN
50	110	40	63.7	20	14000	9500	1.55	2310 K	2310 K	2310 K	2310 K
50	110	40	63.7	20	14000	9500	1.8	2310 M	2310 M	2310 M	2310 M
55	100	21	27.6	10.6	14000	9000	0.71	1211 TN	1211 EKTN9	1211 K.TVH	1211 TN
55	100	21	27.6	10.6	14000	9000	0.71	1211 TN	1211 ETN9	1211 TVH	1211 TN
55	100	25	27.6	10.6	-	4300	0.79	2211 2RSTN	2211 E-2RS1KTN9	2211 K.2RS.TVH	2211 2RSTN
55	100	25	27.6	10.6	-	4300	0.79	2211 2RSTN	2211 E-2RS1TN9	2211 K.2RS.TVH	2211 2RSTN
55	100	25	39	13.4	12000	8500	0.81	2211 TN	2211 EKTN9	2211 K.TVH	2211 TN
55	100	25	39	13.4	12000	8500	0.81	2211 TN	2211 ETN9	2211 TVH	2211 TN
55	120	29	50.7	18	11000	7500	1.6	1311 TN	1311 EKTN9	1311 K.TVH	1311 TN
55	120	29	50.7	18	11000	7500	1.6	1311 TN	1311 ETN9	1311 TVH	1311 TN
55	120	43	76.1	24	11000	7500	2.1	2311	2311	2311	2311
55	120	43	76.1	24	11000	7500	2	2311 K	2311 K	2311 K	2311 K
55	120	43	76.1	24	11000	7500	2.3	2311 M	2311 M	2311 M	2311 M
60	110	22	31.2	12.2	12000	8500	0.9	1212 TN	1212 EKTN9	1212 K.TVH	1212 TN
60	110	22	31.2	12.2	12000	8500	0.9	1212 TN	1212 ETN9	1212 TVH	1212 TN
60	110	28	31.2	12.2	-	3800	1.05	2212 2RSTN	2212 E-2RS1KTN9	2212 K.2RS.TVH	2212 2RSTN
60	110	28	31.2	12.2	-	3800	1.05	2212 2RSTN	2212 E-2RS1TN9	2212 K.2RS.TVH	2212 2RSTN
60	110	28	48.8	17	11000	8000	1.05	2212 TN	2212 EKTN9	2212 K.TVH	2212 TN
60	110	28	48.8	17	11000	8000	1.1	2212 TN	2212 ETN9	2212 TVH	2212 TN
60	130	31	58.5	22	9000	6300	1.9	1312 TN	1312 EKTN9	1312 K.TVH	1312 TN
60	130	31	58.5	22	9000	6300	1.95	1312 TN	1312 ETN9	1312 TVH	1312 TN
60	130	46	87.1	28.5	9500	7000	2.6	2312	2312	2312	2312
60	130	46	87.1	28.5	9500	7000	2.5	2312 K	2312 K	2312 K	2312 K
60	130	46	87.1	28.5	9500	7000	2.9	2312 M	2312 M	2312 M	2312 M
60	150	42	125	41.5	9000	6300	3.95	1412 M	1412 M	1412 M	1412 M
65	120	23	35.1	14	10000	7000	1.1	1213 TN	1213 EKTN9	1213 K.TVH	1213 TN
65	120	23	35.1	14	11000	7000	1.15	1213 TN	1213 ETN9	1213 TVH	1213 TN
65	120	31	35.1	14	-	3600	1.35	2213 2RSTN	2213 E-2RS1KTN9	2213 K.2RS.TVH	2213 2RSTN
65	120	31	35.1	14	-	3600	1.4	2213 2RSTN	2213 E-2RS1TN9	2213 K.2RS.TVH	2213 2RSTN
65	120	31	57.2	20	10000	7000	1.4	2213 TN	2213 EKTN9	2213 K.TVH	2213 TN
65	120	31	57.2	20	10000	7000	1.45	2213 TN	2213 ETN9	2213 TVH	2213 TN
65	140	33	65	25.5	8500	6000	2.35	1313 TN	1313 EKTN9	1313 K.TVH	1313 TN
65	140	33	65	25.5	8500	6000	2.45	1313 TN	1313 ETN9	1313 TVH	1313 TN
65	140	48	95.6	32.5	9000	6300	3.25	2313	2313	2313	2313
65	140	48	95.6	32.5	9000	6300	3.1	2313 K	2313 K	2313 K	2313 K
65	140	48	95.6	32.5	9000	6300	3.6	2313 M	2313 M	2313 M	2313 M
70	125	24	35.8	14.6	11000	7000	1.25	1214 TN	1214 ETN9	1214 TVH	1214 TN
70	125	31	44.2	17	10000	6700	1.5	2214	2214	2214	2214
70	125	31	35.8	14.6	-	3400	1.45	2214 2RSTN	2214 E-2RS1TN9	2214 K.2RS.TVH	2214 2RSTN
70	150	35	74.1	27.5	8500	6000	3	1314	1314	1314	1314
70	150	51	111	37.5	8000	6000	3.9	2314	2314	2314	2314
70	150	51	111	37.5	8000	6000	4.25	2314 M	2314 M	2314 M	2314 M
75	130	25	39	15.6	10000	6700	1.35	1215	1215	1215	1215
75	130	25	39	15.6	10000	6700	1.3	1215 K	1215 K	1215 K	1215 K
75	130	31	58.5	22	9000	6300	1.5	2215 TN	2215 EKTN9	2215 K.TVH	2215 TN



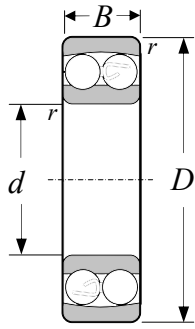
SELF-ALIGNING BALL BEARINGS
Cylindrical & Tapered Bore

Table 42
Bore Diameter 75mm - 100mm

Principal Dimensions			Basic Load Ratings		Speed Ratings		Mass	Designations			
d	D	B	Dynamic C	Static C ₀	Ref. Speed	Limiting Speed		Local	SKF	FAG	NSK
mm			kN		r/min		kg				
75	130	31	58.5	22	9000	6300	1.6	2215 TN	2215 ETN9	2215 TVH	2215 TN
75	160	37	79.3	30	8000	5600	3.55	1315	1315	1315	1315
75	160	37	79.3	30	8000	5600	3.4	1315 K	1315 K	1315 K	1315 K
75	160	37	79.3	30	8000	5600	3.95	1315 M	1315 M	1315 M	1315 M
75	160	55	124	43	7500	5600	4.7	2315	2315	2315	2315
75	160	55	124	43	7500	5600	4.45	2315 K	2315 K	2315 K	2315 K
75	160	55	124	43	7500	5600	5.05	2315 EKTN	2315 KM	2315 K.M	2315 EKTN
75	160	55	124	43	7500	5600	5.3	2315 M	2315 M	2315 M	2315 M
80	140	26	39.7	17	9500	6000	1.65	1216	1216	1216	1216
80	140	26	39.7	17	9500	6000	1.6	1216 K	1216 K	1216 K	1216 K
80	140	33	65	25.5	8500	6000	1.9	2216 TN	2216 EKTN9	2216 K.TVH	2216 TN
80	140	33	65	25.5	8500	6000	2	2216 TN	2216 ETN9	2216 TVH	2216 TN
80	170	39	88.4	33.5	7500	5300	4.2	1316	1316	1316	1316
80	170	39	88.4	33.5	7500	5300	4.05	1316 K	1316 K	1316 K	1316 K
80	170	58	135	49	7000	5300	6.1	2316	2316	2316	2316
80	170	58	135	49	7000	5300	5.9	2316 K	2316 K	2316 K	2316 K
80	170	58	135	49	7000	5300	6.05	2316 EKTN	2316 KM	2316 K.M	2316 EKTN
80	170	58	135	49	7000	5300	6.25	2316 M	2316 M	2316 M	2316 M
85	150	28	48.8	20.8	9000	5600	2.05	1217	1217	1217	1217
85	150	28	48.8	20.8	9000	5600	2	1217 K	1217 K	1217 K	1217 K
85	150	36	58.5	23.6	8000	5600	2.5	2217	2217	2217	2217
85	150	36	58.5	23.6	8000	5600	2.4	2217 K	2217 K	2217 K	2217 K
85	180	41	97.5	38	7000	4800	5	1317	1317	1317	1317
85	180	41	97.5	38	7000	4800	4.9	1317 K	1317 K	1317 K	1317 K
85	180	60	140	51	6700	4800	6.8	2317 EKTN	2317 KM	2317 K.M	2317 EKTN
85	180	60	140	51	6700	4800	7.05	2317 M	2317 M	2317 M	2317 M
90	160	30	57.2	23.6	8500	5300	2.5	1218	1218	1218	1218
90	160	30	57.2	23.6	8500	5300	2.4	1218 K	1218 K	1218 K	1218 K
90	160	40	70.2	28.5	7500	5300	3.4	2218	2218	2218	2218
90	160	40	70.2	28.5	7500	5300	3.2	2218 K	2218 K	2218 K	2218 K
90	190	43	117	44	6700	4500	5.8	1318	1318	1318	1318
90	190	43	117	44	6700	4500	5.6	1318 K	1318 K	1318 K	1318 K
90	190	64	153	57	6300	4500	8.2	2318 EKTN	2318 KM	2318 K.M	2318 EKTN
90	190	64	153	57	6300	4500	8.45	2318 M	2318 M	2318 M	2318 M
95	170	32	63.7	27	8000	5000	3.1	1219	1219	1219	1219
95	170	32	63.7	27	8000	5000	3	1219 K	1219 K	1219 K	1219 K
95	170	43	83.2	34.5	7000	5000	3.9	2219 EKTN	2219 KM	2219 K.M	2219 EKTN
95	170	43	83.2	34.5	7000	5000	4.1	2219 M	2219 M	2219 M	2219 M
95	200	45	133	51	6300	4300	6.7	1319	1319	1319	1319
95	200	45	133	51	6300	4300	6.5	1319 K	1319 K	1319 K	1319 K
95	200	67	165	64	6000	4500	9.8	2319 M	2319 M	2319 M	2319 M
100	180	34	68.9	30	7500	4800	3.7	1220	1220	1220	1220
100	180	34	68.9	30	7500	4800	3.6	1220 K	1220 K	1220 K	1220 K
100	180	46	97.5	40.5	6700	4800	5.5	2220	2220	2220	2220
100	180	46	97.5	40.5	6700	4800	4.8	2220 EKTN	2220 KM	2220 K.M	2220 EKTN
100	180	46	97.5	40.5	6700	4800	5	2220 M	2220 M	2220 M	2220 M
100	215	47	143	57	6000	4000	8.3	1320	1320	1320	1320
100	215	47	143	57	6000	4000	8.05	1320 K	1320 K	1320 K	1320 K
100	215	73	190	80	5600	4000	12	2320 EKTN	2320 KM	2320 K.M	2320 EKTN
100	215	73	190	80	5600	4000	12.5	2320 M	2320 M	2320 M	2320 M

SELF-ALIGNING BALL BEARINGS
Cylindrical & Tapered Bore

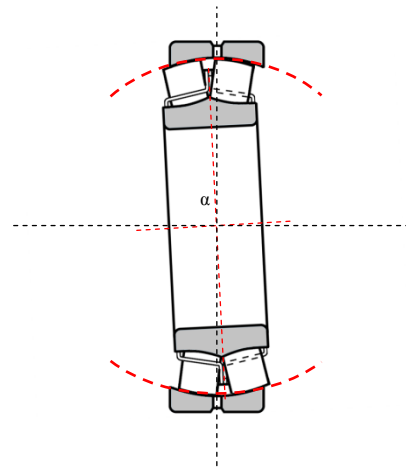
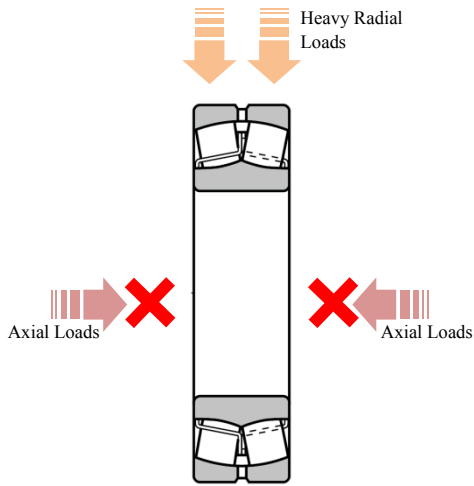
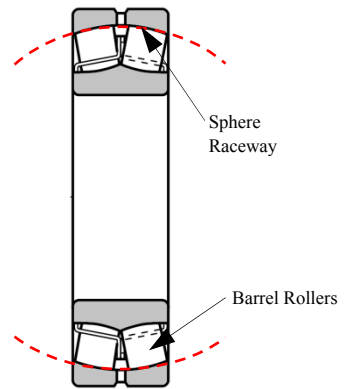
Table 43
Bore Diameter 110mm - 240mm



Principal Dimensions			Basic Load Ratings		Speed Ratings		Mass	Designations			
d	D	B	Dynamic	Static	Ref. Speed	Limiting Speed		Local	SKF	FAG	NSK
mm			C	C ₀	r/min						
110	200	38	88.4	39	6700	4300	5.15	1222	1222	1222	1222
110	200	38	88.4	39	6700	4300	5	1222 K	1222 K	1222 K	1222 K
110	200	53	124	52	6000	4300	6.5	2222	2222	2222	2222
110	200	53	124	52	6000	4300	6.8	2222 EKTN	2222 KM	2222 K.M	2222 EKTN
110	200	53	124	52	6000	4300	7.1	2222 M	2222 M	2222 M	2222 M
110	240	50	163	72	5300	3600	11.5	1322 EKTN	1322 KM	1322 K.M	1322 EKTN
110	240	50	163	72	5300	3600	12	1322 M	1322 M	1322 M	1322 M
120	215	42	119	53	6300	4000	6.5	1224 EKTN	1224 KM	1224 K.M	1224 EKTN
120	215	42	119	53	6300	4000	6.75	1224 M	1224 M	1224 M	1224 M
130	230	46	127	58.5	5600	3600	8.3	1226 M	1226 M	1226 M	1226 M
150	225	56	57.2	23.6	5600	3400	7.5	13030	13030	13030	13030
180	280	74	95.6	40	4500	2800	16	13036	13036	13036	13036
200	280	60	60.5	29	4300	2600	10.7	13940	13940	13940	13940
220	300	60	60.5	30.5	3800	2400	11	13944	13944	13944	13944
240	320	60	60.5	32	3800	2200	11.3	13948	13948	13948	13948

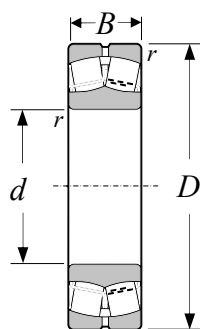
SPHERICAL ROLLER BEARINGS

Spherical roller bearings are designed to be robust in carrying heavy loads, and intrinsically self-aligning, with its' barrel rollers that roll and align themselves freely at the sphere outer ring raceway. However, they must not subject to any axial loads. These bearings are double row, consisting of solid outer ring with a concave or sphere raceway, solid inner rings, and two rows of barrel rollers in the cage. Spherical roller bearings are available in both cylindrical and tapered bores. Its' main advantage over the self-aligning ball bearings is its' greater load carrying capacity.

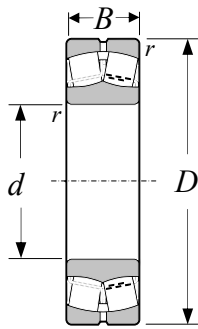


SPHERICAL ROLLER BEARINGS
Cylindrical & Tapered Bore

Table 44
Bore Diameter 20mm - 65mm



Principal Dimensions			Basic Load Ratings		Speed Ratings		Mass	Designations			
d	D	B	Dynamic C	Static C ₀	Ref. Speed	Limiting Speed		Local	SKF	FAG	NSK
mm			kN		r/min		kg				
20	52	18	49	44	13000	17000	0.28	22205/20 EAE4	22205/20 E	22205/20 E1	22205/20 EAE4
25	52	18	49	44	13000	17000	0.26	22205 EAE4	22205 E	22205 E1	22205 EAE4
25	52	18	49	44	13000	17000	0.26	22205 EAKE4	22205 EK	22205 E1.K	22205 EAKE4
25	62	17	41.4	41.5	8500	12000	0.28	21305 EAE4	21305 CC	21305 E1	21305 EAE4
30	62	20	64	60	10000	14000	0.29	22206 EAE4	22206 E	22206 E1	22206 EAE4
30	62	20	64	60	10000	14000	0.28	22206 EAKE4	22206 EK	22206 E1.K	22206 EAKE4
30	72	19	55.2	61	7500	10000	0.41	21306 EAE4	21306 CC	21306 E1	21306 EAE4
30	72	19	55.2	61	7500	10000	0.4	21306 EAKE4	21306 CCK	21306 E1.K	21306 EAKE4
35	72	23	86.5	85	9000	12000	0.45	22207 EAE4	22207 E	22207 E1	22207 EAE4
35	72	23	86.5	85	9000	12000	0.44	22207 EAKE4	22207 EK	22207 E1.K	22207 EAKE4
35	80	21	65.6	72	6700	9500	0.55	21307 EAE4	21307 CC	21307 E1	21307 EAE4
35	80	21	65.6	72	6700	9500	0.54	21307 EAKE4	21307 CCK	21307 E1.K	21307 EAKE4
40	80	23	96.5	90	8000	11000	0.53	22208 EAE4	22208 E	22208 E1	22208 EAE4
40	80	23	96.5	90	8000	11000	0.52	22208 EAKE4	22208 EK	22208 E1.K	22208 EAKE4
40	90	23	104	108	7000	9500	0.75	21308 EAE4	21308 E	21308 E1	21308 EAE4
40	90	23	104	108	7000	9500	0.74	21308 EAKE4	21308 EK	21308 E1.K	21308 EAKE4
40	90	33	150	140	6000	8000	1.05	22308 EAE4	22308 E	22308 E1	22308 EAE4
40	90	33	150	140	6000	8000	1.05	22308 E/VA405	22308 E/VA405	22308 E1.T41	22308 E/VA405
40	90	33	150	140	6000	8000	1.05	22308 EAKE4	22308 EK	22308 E1.K	22308 EAKE4
45	85	23	102	98	7500	10000	0.58	22209 EAE4	22209 E	22209 E1	22209 EAE4
45	85	23	102	98	7500	10000	0.57	22209 EAKE4	22209 EK	22209 E1.K	22209 EAKE4
45	100	25	125	127	6300	8500	0.99	21309 EAE4	21309 E	21309 E1	21309 EAE4
45	100	25	125	127	6300	8500	0.98	21309 EAKE4	21309 EK	21309 E1.K	21309 EAKE4
45	100	36	183	183	5300	7000	1.4	22309 EAE4	22309 E	22309 E1	22309 EAE4
45	100	36	183	183	5300	7000	1.4	22309 E/VA405	22309 E/VA405	22309 E1.T41	22309 E/VA405
45	100	36	183	183	5300	7000	1.35	22309 EAKE4	22309 EK	22309 E1.K	22309 EAKE4
50	90	23	104	108	7000	9500	0.63	22210 EAE4	22210 E	22210 E1	22210 EAE4
50	90	23	104	108	7000	9500	0.62	22210 EAKE4	22210 EK	22210 E1.K	22210 EAKE4
50	110	27	156	166	5600	7500	1.35	21310 EAE4	21310 E	21310 E1	21310 EAE4
50	110	27	156	166	5600	7500	1.35	21310 EAKE4	21310 EK	21310 E1.K	21310 EAKE4
50	110	40	220	224	4800	6300	1.9	22310 EAE4	22310 E	22310 E1	22310 EAE4
50	110	40	220	224	4800	6300	1.9	22310 E/VA405	22310 E/VA405	22310 E1.T41	22310 E/VA405
50	110	40	220	224	4800	6300	1.85	22310 EAKE4	22310 EK	22310 E1.K	22310 EAKE4
55	100	25	125	127	6300	8500	0.84	22211 EAE4	22211 E	22211 E1	22211 EAE4
55	100	25	125	127	6300	8500	0.82	22211 EAKE4	22211 EK	22211 E1.K	22211 EAKE4
55	120	29	156	166	5600	7500	1.7	21311 EAE4	21311 E	21311 E1	21311 EAE4
55	120	29	156	166	5600	7500	1.7	21311 EAKE4	21311 EK	21311 E1.K	21311 EAKE4
55	120	43	270	280	4300	5600	2.45	22311 EAE4	22311 E	22311 E1	22311 EAE4
55	120	43	270	280	4300	5600	2.45	22311 E/VA405	22311 E/VA405	22311 E1.T41	22311 E/VA405
55	120	43	270	280	4300	5600	2.4	22311 EAKE4	22311 EK	22311 E1.K	22311 EAKE4
55	120	43	270	280	4300	5600	2.4	22311 EK/VA405	22311 EK/VA405	22311 E1.K.T41	22311 EK/VA405
60	110	28	156	166	5600	7500	1.15	22212 EAE4	22212 E	22212 E1	22212 EAE4
60	110	28	156	166	5600	7500	1.15	22212 EAKE4	22212 EK	22212 E1.K	22212 EAKE4
60	130	31	212	240	4800	6300	2.1	21312 EAE4	21312 E	21312 E1	21312 EAE4
60	130	31	212	240	4800	6300	2.05	21312 EAKE4	21312 EK	21312 E1.K	21312 EAKE4
60	130	46	310	335	4000	5300	3.1	22312 EAE4	22312 E	22312 E1	22312 EAE4
60	130	46	310	335	4000	5300	3.1	22312 E/VA405	22312 E/VA405	22312 E1.T41	22312 E/VA405
60	130	46	310	335	4000	5300	3.05	22312 EAKE4	22312 EK	22312 E1.K	22312 EAKE4
60	130	46	310	335	4000	5300	3.05	22312 EK/VA405	22312 EK/VA405	22312 E1.K.T41	22312 EK/VA405
65	100	35	132	173	4300	6300	0.95	24013 EAE4	24013 CC/W33	24013 E1	24013 EAE4



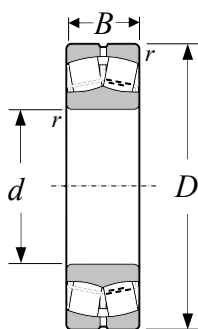
SPHERICAL ROLLER BEARINGS
Cylindrical & Tapered Bore

Table 45
Bore Diameter 65mm - 90mm

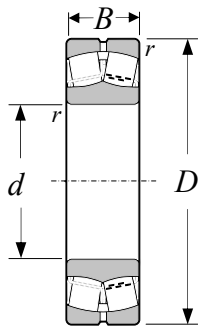
Principal Dimensions			Basic Load Ratings		Speed Ratings		Mass	Designations			
d	D	B	Dynamic C	Static C ₀	Ref. Speed	Limiting Speed					
mm			kN		r/min		kg	Local	SKF	FAG	NSK
65	100	35	132	173	4300	6300	0.93	24013 CK30E4	24013 CCK30/W33	24013 E1.K30	24013 CK30E4
65	100	35	132	173	-	1000	0.95	24013 2CS5W/VT143	24013 2CS5W/VT143	24013	24013 2CS5W/VT143
65	120	31	193	216	5000	7000	1.55	22213 EAE4	22213 E	22213 E1	22213 EAE4
65	120	31	193	216	5000	7000	1.5	22213 EAKE4	22213 EK	22213 E1.K	22213 EAKE4
65	140	33	236	270	4300	6000	2.55	21313 EAE4	21313 E	21313 E1	21313 EAE4
65	140	33	236	270	4300	6000	2.5	21313 EAKE4	21313 EK	21313 E1.K	21313 EAKE4
65	140	48	340	360	3800	5000	3.75	22313 EAE4	22313 E	22313 E1	22313 EAE4
65	140	48	340	360	3800	5000	3.75	22313 E/VA405	22313 E/VA405	22313 E1.T41	22313 E/VA405
65	140	48	340	360	3800	5000	3.65	22313 EAKE4	22313 EK	22313 E1.K	22313 EAKE4
65	140	48	340	360	3800	5000	3.65	22313 EK/VA405	22313 EK/VA405	22313 E1.K.T41	22313 EK/VA405
70	125	31	208	228	5000	6700	1.55	22214 EAE4	22214 E	22214 E1	22214 EAE4
70	125	31	208	228	5000	6700	1.5	22214 EAKE4	22214 EK	22214 E1.K	22214 EAKE4
70	150	35	285	325	4000	5600	3.1	21314 EAE4	21314 E	21314 E1	21314 EAE4
70	150	35	285	325	4000	5600	3.05	21314 EAKE4	21314 EK	21314 E1.K	21314 EAKE4
70	150	51	400	430	3400	4500	4.55	22314 EAE4	22314 E	22314 E1	22314 EAE4
70	150	51	400	430	3400	4500	4.55	22314 E/VA405	22314 E/VA405	22314 E1.T41	22314 E/VA405
70	150	51	400	430	3400	4500	4.45	22314 EAKE4	22314 EK	22314 E1.K	22314 EAKE4
70	150	51	400	430	3400	4500	4.45	22314 EK/VA405	22314 EK/VA405	22314 E1.K.T41	22314 EK/VA405
75	115	40	173	232	3800	5300	1.55	24015 EAE4	24015 CC/W33	24015 E1	24015 EAE4
75	115	40	173	232	3800	5300	1.55	24015 CK30E4	24015 CCK30/W33	24015 E1.K30	24015 CK30E4
75	115	40	173	232	-	950	1.55	24015 2CS2/VT143	24015 2CS2/VT143	24015	24015 2CS2/VT143
75	130	31	212	240	4800	6300	1.7	22215 EAE4	22215 E	22215 E1	22215 EAE4
75	130	31	212	240	4800	6300	1.65	22215 EAKE4	22215 EK	22215 E1.K	22215 EAKE4
75	160	37	285	325	4000	5600	3.75	21315 EAE4	21315 E	21315 E1	21315 EAE4
75	160	37	285	325	4000	5600	3.7	21315 EAKE4	21315 EK	21315 E1.K	21315 EAKE4
75	160	55	440	475	3200	4300	5.55	22315 EAE4	22315 E	22315 E1	22315 EAE4
75	160	55	440	475	3200	4300	5.55	22315 EJA/VA405	22315 EJA/VA405	22315 E1.T41	22315 EJA/VA405
75	160	55	440	475	3200	4300	5.45	22315 EAKE4	22315 EK	22315 E1.K	22315 EAKE4
75	160	55	440	475	3200	4300	5.45	22315 EKJA/VA405	22315 EKJA/VA405	22315 E1.K.T41	22315 EKJA/VA405
80	140	33	236	270	4300	6000	2.1	22216 EAE4	22216 E	22216 E1	22216 EAE4
80	140	33	236	270	4300	6000	2.05	22216 EAKE4	22216 EK	22216 E1.K	22216 EAKE4
80	170	39	325	375	3800	5300	4.45	21316 EAE4	21316 E	21316 E1	21316 EAE4
80	170	39	325	375	3800	5300	4.4	21316 EAKE4	21316 EK	21316 E1.K	21316 EAKE4
80	170	58	490	540	3000	4000	6.6	22316 EAE4	22316 E	22316 E1	22316 EAE4
80	170	58	490	540	3000	4000	6.6	22316 EJA/VA405	22316 EJA/VA405	22316 E1.T41	22316 EJA/VA405
80	170	58	490	540	3000	4000	6.45	22316 EAKE4	22316 EK	22316 E1.K	22316 EAKE4
80	170	58	490	540	3000	4000	6.45	22316 EKJA/VA405	22316 EKJA/VA405	22316 E1.K.T41	22316 EKJA/VA405
85	150	36	285	325	4000	5600	2.65	22217 EAE4	22217 E	22217 E1	22217 EAE4
85	150	36	285	325	4000	5600	2.6	22217 EAKE4	22217 EK	22217 E1.K	22217 EAKE4
85	180	41	325	375	3800	5300	5.2	21317 EAE4	21317 E	21317 E1	21317 EAE4
85	180	41	325	375	3800	5300	5.15	21317 EAKE4	21317 EK	21317 E1.K	21317 EAKE4
85	180	60	550	620	2800	3800	7.65	22317 EAE4	22317 E	22317 E1	22317 EAE4
85	180	60	550	620	2800	3800	7.65	22317 EJA/VA405	22317 EJA/VA405	22317 E1.T41	22317 EJA/VA405
85	180	60	550	620	2800	3800	7.65	22317 EJA/VA406	22317 EJA/VA406	22317 E1.T41	22317 EJA/VA406
85	180	60	550	620	2800	3800	7.5	22317 EAKE4	22317 EK	22317 E1.K	22317 EAKE4
85	180	60	550	620	2800	3800	7.5	22317 EKJA/VA405	22317 EKJA/VA405	22317 E1.K.T41	22317 EKJA/VA405
90	160	40	325	375	3800	5300	3.4	22218 EAE4	22218 E	22218 E1	22218 EAE4
90	160	40	325	375	3800	5300	3.35	22218 EAKE4	22218 EK	22218 E1.K	22218 EAKE4
90	160	52.4	355	440	2800	3800	4.65	23218 EAE4	23218 CC/W33	23218 E1	23218 EAE4
90	160	52.4	355	440	2800	3800	4.5	23218 EAKE4	23218 CCK/W33	23218 E1.K	23218 EAKE4

SPHERICAL ROLLER BEARINGS
Cylindrical & Tapered Bore

Table 46
Bore Diameter 90mm - 110mm



Principal Dimensions			Basic Load Ratings		Speed Ratings		Mass	Designations			
d	D	B	Dynamic C	Static C ₀	Ref. Speed	Limiting Speed		Local	SKF	FAG	NSK
mm	mm	mm	kN	kN	r/min	r/min	kg				
90	190	43	380	450	3600	4800	6.1	21318 EAE4	21318 E	21318 E1	21318 EAE4
90	190	43	380	450	3600	4800	6	21318 EAKE4	21318 EK	21318 E1.K	21318 EAKE4
90	190	64	610	695	2600	3600	9.05	22318 EAE4	22318 E	22318 E1	22318 EAE4
90	190	64	610	695	2600	3600	9.05	22318 EJA/VA405	22318 EJA/VA405	22318 E1.T41	22318 EJA/VA405
90	190	64	610	695	2600	3600	8.85	22318 EAKE4	22318 EK	22318 E1.K	22318 EAKE4
90	190	64	610	695	2600	3600	8.85	22318 EKJA/VA405	22318 EKJA/VA405	22318 E1.K.T41	22318 EKJA/VA405
95	170	43	380	450	3600	4800	4.15	22219 EAE4	22219 E	22219 E1	22219 EAE4
95	170	43	380	450	3600	4800	4.05	22219 EAKE4	22219 EK	22219 E1.K	22219 EAKE4
95	200	45	425	490	3400	4500	7.05	21319 EAE4	21319 E	21319 E1	21319 EAE4
95	200	45	425	490	3400	4500	6.95	21319 EAKE4	21319 EK	21319 E1.K	21319 EAKE4
95	200	67	670	765	2600	3400	10.5	22319 EAE4	22319 E	22319 E1	22319 EAE4
95	200	67	670	765	2600	3400	10.5	22319 EJA/VA405	22319 EJA/VA405	22319 E1.T41	22319 EJA/VA405
95	200	67	670	765	2600	3400	10.5	22319 EAKE4	22319 EK	22319 E1.K	22319 EAKE4
95	200	67	670	765	2600	3400	10.5	22319 EKJA/VA405	22319 EKJA/VA405	22319 E1.K.T41	22319 EKJA/VA405
100	150	50	285	415	2800	4000	3.15	24020 EAE4	24020 CC/W33	24020 E1	24020 EAE4
100	150	50	285	415	2800	4000	3.1	24020 CK30E4	24020 CCK30/W33	24020 E1.K30	24020 CK30E4
100	150	50	285	415	-	800	3.2	24020 2CS2/VT143	24020 2CS2/VT143	24020	24020 2CS2/VT143
100	165	52	365	490	3000	4000	4.55	23120 EAE4	23120 CC/W33	23120 E1	23120 EAE4
100	165	52	365	490	3000	4000	4.4	23120 EAKE4	23120 CCK/W33	23120 E1.K	23120 EAKE4
100	165	52	365	490	-	850	4.4	23120 2CS2/VT143	23120 2CS2/VT143	23120	23120 2CS2/VT143
100	165	65	455	640	2400	3200	5.65	24120 EAE4	24120 CC/W33	24120 E1	24120 EAE4
100	165	65	455	640	2400	3200	5.55	24120 CK30E4	24120 CCK30/W33	24120 E1.K30	24120 CK30E4
100	180	46	425	490	3400	4500	4.9	22220 EAE4	22220 E	22220 E1	22220 EAE4
100	180	46	425	490	3400	4500	4.8	22220 EAKE4	22220 EK	22220 E1.K	22220 EAKE4
100	180	60.3	475	600	2400	3400	6.85	23220 EAE4	23220 CC/W33	23220 E1	23220 EAE4
100	180	60.3	475	600	2400	3400	6.65	23220 EAKE4	23220 CCK/W33	23220 E1.K	23220 EAKE4
100	180	60.3	475	600	-	700	6.85	23220 2CS/VT143	23220 2CS/VT143	23220	23220 2CS/VT143
100	215	47	425	490	3400	4500	8.6	21320 EAE4	21320 E	21320 E1	21320 EAE4
100	215	47	425	490	3400	4500	8.5	21320 EAKE4	21320 EK	21320 E1.K	21320 EAKE4
100	215	73	815	950	2400	3000	13.5	22320 EAE4	22320 E	22320 E1	22320 EAE4
100	215	73	815	950	2400	3000	13.5	22320 EJA/VA405	22320 EJA/VA405	22320 E1.T41	22320 EJA/VA405
100	215	73	815	950	2400	3000	13.5	22320 EJA/VA406	22320 EJA/VA406	22320 E1.T41	22320 EJA/VA406
100	215	73	815	950	2400	3000	13	22320 EAKE4	22320 EK	22320 E1.K	22320 EAKE4
100	215	73	815	950	2400	3400	13	22320 EKJA/VA405	22320 EKJA/VA405	22320 E1.K.T41	22320 EKJA/VA405
110	170	45	310	440	3400	4300	3.8	23022 EAE4	23022 CC/W33	23022 E1	23022 EAE4
110	170	45	310	440	3400	4300	3.7	23022 EAKE4	23022 CCK/W33	23022 E1.K	23022 EAKE4
110	170	45	310	440	-	900	3.8	23022 2CS/VT143	23022 2CS/VT143	23022	23022 2CS/VT143
110	170	60	415	620	2400	3600	5	24022 EAE4	24022 CC/W33	24022 E1	24022 EAE4
110	170	60	415	620	2400	3600	4.9	24022 CK30E4	24022 CCK30/W33	24022 E1.K30	24022 CK30E4
110	180	56	430	585	2800	3600	5.75	23122 EAE4	23122 CC/W33	23122 E1	23122 EAE4
110	180	56	430	585	2800	3600	5.55	23122 EAKE4	23122 CCK/W33	23122 E1.K	23122 EAKE4
110	180	56	430	585	-	800	5.75	23122 2CS5/VT143	23122 2CS5/VT143	23122	23122 2CS5/VT143
110	180	69	520	750	2200	3000	7.1	24122 EAE4	24122 CC/W33	24122 E1	24122 EAE4
110	180	69	520	750	2200	3000	7	24122 CK30E4	24122 CCK30/W33	24122 E1.K30	24122 CK30E4
110	180	69	520	750	-	630	7.1	24122 2CS5/VT143	24122 2CS5/VT143	24122	24122 2CS5/VT143
110	200	53	560	640	3000	4000	7	22222 EAE4	22222 E	22222 E1	22222 EAE4
110	200	53	560	640	3000	4000	6.85	22222 EAKE4	22222 EK	22222 E1.K	22222 EAKE4
110	200	69.8	600	765	2200	3200	9.85	23222 EAE4	23222 CC/W33	23222 E1	23222 EAE4
110	200	69.8	600	765	2200	3200	9.55	23222 EAKE4	23222 CCK/W33	23222 E1.K	23222 EAKE4
110	240	80	950	1120	2000	2800	18.4	22322 EAE4	22322 E	22322 E1	22322 EAE4



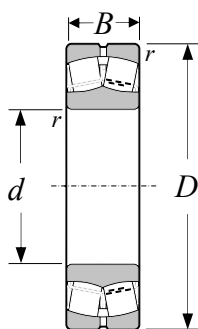
SPHERICAL ROLLER BEARINGS
Cylindrical & Tapered Bore

Table 47
Bore Diameter 110mm - 140mm

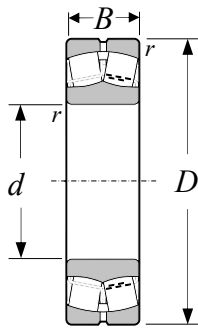
Principal Dimensions			Basic Load Ratings		Speed Ratings		Mass	Designations			
d	D	B	C	C ₀	Ref. Speed	Limiting Speed		Local	SKF	FAG	NSK
mm	mm	mm	kN	kN	r/min	r/min	kg				
110	240	80	950	1120	2000	2800	18.4	22322 EJA/VA405	22322 EJA/VA405	22322 E1.T41	22322 EJA/VA405
110	240	80	950	1120	2000	2800	18.4	22322 EJA/VA406	22322 EJA/VA406	22322 E1.T41	22322 EJA/VA406
110	240	80	950	1120	2000	2800	18	22322 EAKE4	22322 EK	22322 E1.K	22322 EAKE4
110	240	80	950	1120	2000	2800	18	22322 EKJA/VA405	22322 EKJA/VA405	22322 E1.K.T41	22322 EKJA/VA405
120	180	46	355	510	3200	4000	4.2	23024 EAE4	23024 CC/W33	23024 E1	23024 EAE4
120	180	46	355	510	3200	4000	4.05	23024 EAKE4	23024 CCK/W33	23024 E1.K	23024 EAKE4
120	180	46	355	510	-	850	4.2	23024 2CS2/VT143	23024 2CS2/VT143	23024	23024 2CS2/VT143
120	180	60	430	670	2400	3400	5.45	24024 EAE4	24024 CC/W33	24024 E1	24024 EAE4
120	180	60	430	670	2400	3400	5.35	24024 CK30E4	24024 CCK30/W33	24024 E1.K30	24024 CK30E4
120	180	60	430	670	-	670	5.45	24024 2CS5/VT143	24024 2CS5/VT143	24024	24024 2CS5/VT143
120	200	62	510	695	2600	3400	8	23124 EAE4	23124 CC/W33	23124 E1	23124 EAE4
120	200	62	510	695	2600	3400	7.75	23124 EAKE4	23124 CCK/W33	23124 E1.K	23124 EAKE4
120	200	80	655	950	1900	2600	10.3	24124 EAE4	24124 CC/W33	24124 E1	24124 EAE4
120	200	80	655	950	1900	2600	10	24124 CK30E4	24124 CCK30/W33	24124 E1.K30	24124 CK30E4
120	200	80	655	950	-	560	10.5	24124 2CS5/VT143	24124 2CS5/VT143	24124	24124 2CS5/VT143
120	215	58	630	765	2800	3800	8.7	22224 EAE4	22224 E	22224 E1	22224 EAE4
120	215	58	630	765	2800	3800	8.5	22224 EAKE4	22224 EK	22224 E1.K	22224 EAKE4
120	215	76	695	930	2000	2800	12	23224 EAE4	23224 CC/W33	23224 E1	23224 EAE4
120	215	76	695	930	2000	2800	11.5	23224 EAKE4	23224 CCK/W33	23224 E1.K	23224 EAKE4
120	260	86	965	1120	2000	2600	23	22324 EAE4	22324 CC/W33	22324 E1	22324 EAE4
120	260	86	965	1120	2000	2600	23	22324 CCJA/W33VA405	22324 CCJA/W33VA405	22324 E1.T41	22324 CCJA/W33VA405
120	260	86	965	1120	2000	2600	23	22324 CCJA/W33VA406	22324 CCJA/W33VA406	22324 E1.T41	22324 CCJA/W33VA406
120	260	86	965	1120	2000	2600	22.5	22324 EAKE4	22324 CCK/W33	22324 E1.K	22324 EAKE4
120	260	86	965	1120	2000	2600	22.5	22324 CCKJA/W33VA405	22324 CCKJA/W33VA405	22324 E1.T41	22324 CCKJA/W33VA405
130	200	52	430	610	2800	3600	6	23026 EAE4	23026 CC/W33	23026 E1	23026 EAE4
130	200	52	430	610	2800	3600	5.8	23026 EAKE4	23026 CCK/W33	23026 E1.K	23026 EAKE4
130	200	52	430	610	-	800	6	23026 2CS5/VT143	23026 2CS5/VT143	23026	23026 2CS5/VT143
130	200	69	540	815	2000	3000	8.05	24026 EAE4	24026 CC/W33	24026 E1	24026 EAE4
130	200	69	540	815	2000	3000	7.9	24026 CK30E4	24026 CCK30/W33	24026 E1.K30	24026 CK30E4
130	200	69	540	815	-	600	8.05	24026 2CS5/VT143	24026 2CS5/VT143	24026	24026 2CS5/VT143
130	210	64	560	780	2400	3200	8.8	23126 EAE4	23126 CC/W33	23126 E1	23126 EAE4
130	210	64	560	780	2400	3200	8.5	23126 EAKE4	23126 CCK/W33	23126 E1.K	23126 EAKE4
130	210	80	680	1000	1800	2400	11	24126 EAE4	24126 CC/W33	24126 E1	24126 EAE4
130	210	80	680	1000	1800	2400	11	24126 CK30E4	24126 CCK30/W33	24126 E1.K30	24126 CK30E4
130	210	80	680	1000	-	530	11	24126 2CS5/VT143	24126 2CS5/VT143	24126	24126 2CS5/VT143
130	230	64	735	930	2600	3600	11	22226 EAE4	22226 E	22226 E1	22226 EAE4
130	230	64	735	930	2600	3600	10.7	22226 EAKE4	22226 EK	22226 E1.K	22226 EAKE4
130	230	80	780	1060	1900	2600	14.5	23226 EAE4	23226 CC/W33	23226 E1	23226 EAE4
130	230	80	780	1060	1900	2600	14	23226 EAKE4	23226 CCK/W33	23226 E1.K	23226 EAKE4
130	230	80	780	1060	-	500	13.8	23226 2CS5/VT143	23226 2CS5/VT143	23226	23226 2CS5/VT143
130	230	80	780	1060	-	500	13.8	23226 2CS5K/VT143	23226 2CS5K/VT143	23226	23226 2CS5K/VT143
130	280	93	1120	1320	1800	2400	29	22326 EAE4	22326 CC/W33	22326 E1	22326 EAE4
130	280	93	1120	1320	1800	2400	29	22326 CCJA/W33VA405	22326 CCJA/W33VA405	22326 E1.T41	22326 CCJA/W33VA405
130	280	93	1120	1320	1800	2400	29	22326 CCJA/W33VA406	22326 CCJA/W33VA406	22326 E1.T41	22326 CCJA/W33VA406
130	280	93	1120	1320	1800	2400	28.5	22326 EAKE4	22326 CCK/W33	22326 E1.K	22326 EAKE4
130	280	93	1120	1320	1800	2400	28.5	22326 CCKJA/W33VA405	22326 CCKJA/W33VA405	22326 E1.T41	22326 CCKJA/W33VA405
130	280	93	1120	1320	-	500	27.6	22326 2CS5/VT143	22326 2CS5/VT143	22326	22326 2CS5/VT143
130	280	93	1120	1320	-	500	27.6	22326 2CS5K/VT143	22326 2CS5K/VT143	22326	22326 2CS5K/VT143
140	210	53	465	680	2600	3400	6.55	23028 EAE4	23028 CC/W33	23028 E1	23028 EAE4
140	210	53	465	680	2600	3400	6.35	23028 EAKE4	23028 CCK/W33	23028 E1.K	23028 EAKE4

SPHERICAL ROLLER BEARINGS
Cylindrical & Tapered Bore

Table 48
Bore Diameter 140mm - 160mm



Principal Dimensions			Basic Load Ratings		Speed Ratings		Mass	Designations			
d	D	B	C	C ₀	Ref. Speed	Limiting Speed		Local	SKF	FAG	NSK
mm	mm	mm	kN	kN	r/min	r/min	kg				
140	210	53	465	680	-	700	6.55	23028 2CS5/VT143	23028 2CS5/VT143	23028	23028 2CS5/VT143
140	210	53	465	680	-	700	6.55	23028 2CS5K/VT143	23028 2CS5K/VT143	23028	23028 2CS5K/VT143
140	210	69	570	900	2000	2800	8.55	24028 EAE4	24028 CC/W33	24028 E1	24028 EAE4
140	210	69	570	900	2000	2800	8.4	24028 CK30E4	24028 CCK30/W33	24028 E1.K30	24028 CK30E4
140	210	69	570	900	-	560	8.55	24028 2CS5/VT143	24028 2CS5/VT143	24028	24028 2CS5/VT143
140	225	68	630	900	2200	2800	10.5	23128 EAE4	23128 CC/W33	23128 E1	23128 EAE4
140	225	68	630	900	2200	2800	10	23128 EAKE4	23128 CCK/W33	23128 E1.K	23128 EAKE4
140	225	85	765	1160	1700	2400	13.5	24128 EAE4	24128 CC/W33	24128 E1	24128 EAE4
140	225	85	765	1160	1700	2400	13.5	24128 CK30E4	24128 CCK30/W33	24128 E1.K30	24128 CK30E4
140	225	85	765	1160	-	450	13.5	24128 2CS5/VT143	24128 2CS5/VT143	24128	24128 2CS5/VT143
140	250	68	710	900	2400	3200	14	22228 EAE4	22228 CC/W33	22228 E1	22228 EAE4
140	250	68	710	900	2400	3200	13.5	22228 EAKE4	22228 CCK/W33	22228 E1.K	22228 EAKE4
140	250	68	710	900	-	670	14	22228 2CS5/VT143	22228 2CS5/VT143	22228	22228 2CS5/VT143
140	250	68	710	900	-	670	14	22228 2CS5K/VT143	22228 2CS5K/VT143	22228	22228 2CS5K/VT143
140	250	88	915	1250	1700	2400	19	23228 EAE4	23228 CC/W33	23228 E1	23228 EAE4
140	250	88	915	1250	1700	2400	18.5	23228 EAKE4	23228 CCK/W33	23228 E1.K	23228 EAKE4
140	250	88	915	1250	-	480	19	23228 2CS5/VT143	23228 2CS5/VT143	23228	23228 2CS5/VT143
140	250	88	915	1250	-	480	19	23228 2CS5K/VT143	23228 2CS5K/VT143	23228	23228 2CS5K/VT143
140	300	102	1290	1560	1700	2200	36.5	22328 EAE4	22328 CC/W33	22328 E1	22328 EAE4
140	300	102	1290	1560	1700	2200	36.5	22328 CCJA/W33VA405	22328 CCJA/W33VA405	22328 E1.T41	22328 CCJA/W33VA405
140	300	102	1290	1560	1700	2200	36.5	22328 CCJA/W33VA406	22328 CCJA/W33VA406	22328 E1.T41	22328 CCJA/W33VA406
140	300	102	1290	1560	1700	2200	36	22328 EAKE4	22328 CCK/W33	22328 E1.K	22328 EAKE4
140	300	102	1290	1560	1700	2200	35.5	22328 CCKJA/W33VA405	22328 CCKJA/W33VA405	22328 E1.T41	22328 CCKJA/W33VA405
150	225	56	510	750	2400	3200	7.95	23030 EAE4	23030 CC/W33	23030 E1	23030 EAE4
150	225	56	510	750	2400	3200	7.7	23030 EAKE4	23030 CCK/W33	23030 E1.K	23030 EAKE4
150	225	56	510	750	-	670	7.95	23030 2CS5/VT143	23030 2CS5/VT143	23030	23030 2CS5/VT143
150	225	56	510	750	-	670	7.95	23030 2CS5K/VT143	23030 2CS5K/VT143	23030	23030 2CS5K/VT143
150	225	75	655	1040	1800	2600	10.5	24030 EAE4	24030 CC/W33	24030 E1	24030 EAE4
150	225	75	655	1040	1800	2600	10.5	24030 CK30E4	24030 CCK30/W33	24030 E1.K30	24030 CK30E4
150	225	75	655	1040	-	530	10.5	24030 2CS5/VT143	24030 2CS5/VT143	24030	24030 2CS5/VT143
150	250	80	830	1200	2000	2600	16	23130 EAE4	23130 CC/W33	23130 E1	23130 EAE4
150	250	80	830	1200	2000	2600	15.5	23130 EAKE4	23130 CCK/W33	23130 E1.K	23130 EAKE4
150	250	100	1020	1530	1500	2200	20	24130 EAE4	24130 CC/W33	24130 E1	24130 EAE4
150	250	100	1020	1530	1500	2200	19.5	24130 CK30E4	24130 CCK30/W33	24130 E1.K30	24130 CK30E4
150	250	100	1020	1530	-	400	20	24130 2CS5/VT143	24130 2CS5/VT143	24130	24130 2CS5/VT143
150	270	73	850	1080	2200	3000	18	22230 EAE4	22230 CC/W33	22230 E1	22230 EAE4
150	270	73	850	1080	2200	3000	17.5	22230 EAKE4	22230 CCK/W33	22230 E1.K	22230 EAKE4
150	270	73	850	1080	-	630	17.5	22230 2CS5/VT143	22230 2CS5/VT143	22230	22230 2CS5/VT143
150	270	73	850	1080	-	630	17.5	22230 2CS5K/VT143	22230 2CS5K/VT143	22230	22230 2CS5K/VT143
150	270	96	1080	1460	1600	2200	24.5	23230 EAE4	23230 CC/W33	23230 E1	23230 EAE4
150	270	96	1080	1460	1600	2200	24	23230 EAKE4	23230 CCK/W33	23230 E1.K	23230 EAKE4
150	270	96	1080	1460	-	430	23.3	23230 2CS5/VT143	23230 2CS5/VT143	23230	23230 2CS5/VT143
150	270	96	1080	1460	-	430	23.3	23230 2CS5K/VT143	23230 2CS5K/VT143	23230	23230 2CS5K/VT143
150	320	108	1460	1760	1600	2000	43.5	22330 EAE4	22330 CC/W33	22330 E1	22330 EAE4
150	320	108	1460	1760	1600	2000	43.5	22330 CCJA/W33VA405	22330 CCJA/W33VA405	22330 E1.T41	22330 CCJA/W33VA405
150	320	108	1460	1760	1600	2000	43.5	22330 CCJA/W33VA406	22330 CCJA/W33VA406	22330 E1.T41	22330 CCJA/W33VA406
150	320	108	1460	1760	1600	2000	42.5	22330 EAKE4	22330 CCK/W33	22330 E1.K	22330 EAKE4
150	320	108	1460	1760	1600	2000	42.5	22330 CCKJA/W33VA405	22330 CCKJA/W33VA405	22330 E1.T41	22330 CCKJA/W33VA405
160	240	60	585	880	2400	3000	9.7	23032 EAE4	23032 CC/W33	23032 E1	23032 EAE4
160	240	60	585	880	2400	3000	9.4	23032 EAKE4	23032 CCK/W33	23032 E1.K	23032 EAKE4



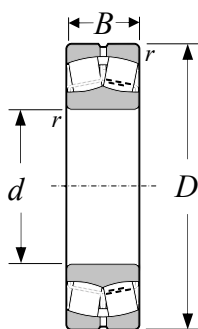
SPHERICAL ROLLER BEARINGS
Cylindrical & Tapered Bore

Table 49
Bore Diameter 160mm - 180mm

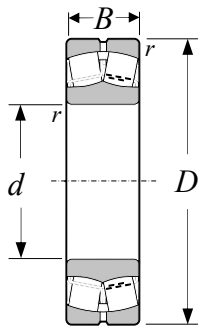
Principal Dimensions			Basic Load Ratings		Speed Ratings		Mass	Designations			
d	D	B	C	C ₀	Ref. Speed	Limiting Speed		Local	SKF	FAG	NSK
mm	mm	mm	kN	kN	r/min	r/min	kg				
160	240	60	585	880	-	670	9.7	23032 2CS5/VT143	23032 2CS5/VT143	23032	23032 2CS5/VT143
160	240	60	585	880	-	670	9.7	23032 2CS5K/VT143	23032 2CS5K/VT143	23032	23032 2CS5K/VT143
160	240	80	750	1200	1700	2400	13	24032 EAE4	24032 CC/W33	24032 E1	24032 EAE4
160	240	80	750	1200	1700	2400	13	24032 CK30E4	24032 CCK30/W33	24032 E1.K30	24032 CK30E4
160	240	80	750	1200	-	450	13	24032 2CS5/VT143	24032 2CS5/VT143	24032	24032 2CS5/VT143
160	240	80	750	1200	-	450	13	24032 2CS5K30/VT143	24032 2CS5K30/VT143	24032	24032 2CS5K30/VT143
160	270	86	980	1370	1900	2400	20.5	23132 EAE4	23132 CC/W33	23132 E1	23132 EAE4
160	270	86	980	1370	1900	2400	20	23132 EAKE4	23132 CCK/W33	23132 E1.K	23132 EAKE4
160	270	86	980	1370	-	530	20.5	23132 2CS5/VT143	23132 2CS5/VT143	23132	23132 2CS5/VT143
160	270	109	1180	1760	1400	1900	25	24132 EAE4	24132 CC/W33	24132 E1	24132 EAE4
160	270	109	1180	1760	1400	1900	24.5	24132 CK30E4	24132 CCK30/W33	24132 E1.K30	24132 CK30E4
160	290	80	1000	1290	2000	2800	22.5	22232 EAE4	22232 CC/W33	22232 E1	22232 EAE4
160	290	80	1000	1290	2000	2800	22	22232 EAKE4	22232 CCK/W33	22232 E1.K	22232 EAKE4
160	290	80	1000	1290	-	600	22.5	22232 2CS5/VT143	22232 2CS5/VT143	22232	22232 2CS5/VT143
160	290	80	1000	1290	-	600	22.5	22232 2CS5K/VT143	22232 2CS5K/VT143	22232	22232 2CS5K/VT143
160	290	104	1220	1660	1500	2200	31	23232 EAE4	23232 CC/W33	23232 E1	23232 EAE4
160	290	104	1220	1660	1500	2200	30	23232 EAKE4	23232 CCK/W33	23232 E1.K	23232 EAKE4
160	340	114	1600	1960	1500	1900	52	22332 EAE4	22332 CC/W33	22332 E1	22332 EAE4
160	340	114	1600	1960	1500	1900	52	22332 CCJA/W33VA405	22332 CCJA/W33VA405	22332 E1.T41	22332 CCJA/W33VA405
160	340	114	1600	1960	1500	1900	52	22332 CCJA/W33VA406	22332 CCJA/W33VA406	22332 E1.T41	22332 CCJA/W33VA406
160	340	114	1600	1960	1500	1900	51	22332 EAKE4	22332 CCK/W33	22332 E1.K	22332 EAKE4
160	340	114	1600	1960	1500	1900	51	22332 CCKJA/W33VA405	22332 CCKJA/W33VA405	22332 E1.T41	22332 CCKJA/W33VA405
170	260	67	710	1060	2200	2800	13	23034 EAE4	23034 CC/W33	23034 E1	23034 EAE4
170	260	67	710	1060	2200	2800	12.6	23034 EAKE4	23034 CCK/W33	23034 E1.K	23034 EAKE4
170	260	67	710	1080	-	630	13	23034 2CS5/VT143	23034 2CS5/VT143	23034	23034 2CS5/VT143
170	260	67	710	1080	-	630	13	23034 2CS5K/VT143	23034 2CS5K/VT143	23034	23034 2CS5K/VT143
170	260	90	930	1460	1600	2400	17.5	24034 EAE4	24034 CC/W33	24034 E1	24034 EAE4
170	260	90	930	1460	1600	2400	17	24034 CK30E4	24034 CCK30/W33	24034 E1.K30	24034 CK30E4
170	260	90	930	1460	-	400	17.5	24034 2CS5/VT143	24034 2CS5/VT143	24034	24034 2CS5/VT143
170	280	88	1040	1500	1800	2400	22	23134 EAE4	23134 CC/W33	23134 E1	23134 EAE4
170	280	88	1040	1500	1800	2400	21.5	23134 EAKE4	23134 CCK/W33	23134 E1.K	23134 EAKE4
170	280	88	1040	1500	-	480	20.3	23134 2CS5/VT143	23134 2CS5/VT143	23134	23134 2CS5/VT143
170	280	88	1040	1500	-	480	20.3	23134 2CS5K/VT143	23134 2CS5K/VT143	23134	23134 2CS5K/VT143
170	280	109	1220	1860	1300	1900	27.5	24134 EAE4	24134 CC/W33	24134 E1	24134 EAE4
170	280	109	1220	1860	1300	1900	27	24134 CK30E4	24134 CCK30/W33	24134 E1.K30	24134 CK30E4
170	310	86	1120	1460	1900	2600	28.5	22234 EAE4	22234 CC/W33	22234 E1	22234 EAE4
170	310	86	1120	1460	1900	2600	28	22234 EAKE4	22234 CCK/W33	22234 E1.K	22234 EAKE4
170	310	86	1120	1460	-	500	28.5	22234 2CS5/VT143	22234 2CS5/VT143	22234	22234 2CS5/VT143
170	310	86	1120	1460	-	500	28.5	22234 2CS5K/VT143	22234 2CS5K/VT143	22234	22234 2CS5K/VT143
170	310	110	1400	1930	1400	2000	37.5	23234 EAE4	23234 CC/W33	23234 E1	23234 EAE4
170	310	110	1400	1930	1400	2000	36.5	23234 EAKE4	23234 CCK/W33	23234 E1.K	23234 EAKE4
170	360	120	1760	2160	1400	1800	61	22334 EAE4	22334 CC/W33	22334 E1	22334 EAE4
170	360	120	1760	2160	1400	1800	61	22334 CCJA/W33VA405	22334 CCJA/W33VA405	22334 E1.T41	22334 CCJA/W33VA405
170	360	120	1760	2160	1400	1800	61	22334 CCJA/W33VA406	22334 CCJA/W33VA406	22334 E1.T41	22334 CCJA/W33VA406
170	360	120	1760	2160	1400	1800	59.5	22334 EAKE4	22334 CCK/W33	22334 E1.K	22334 EAKE4
170	360	120	1760	2160	1400	1800	59.5	22334 CCKJA/W33VA405	22334 CCKJA/W33VA405	22334 E1.T41	22334 CCKJA/W33VA405
180	250	52	431	830	2200	2800	7.9	23936 EAE4	23936 CC/W33	23936 E1	23936 EAE4
180	250	52	431	830	2200	2800	7.65	23936 EAKE4	23936 CCK/W33	23936 E1.K	23936 EAKE4
180	280	74	830	1250	2000	2600	17	23036 EAE4	23036 CC/W33	23036 E1	23036 EAE4
180	280	74	830	1250	2000	2600	16.5	23036 EAKE4	23036 CCK/W33	23036 E1.K	23036 EAKE4

SPHERICAL ROLLER BEARINGS
Cylindrical & Tapered Bore

Table 50
Bore Diameter 180mm - 200mm



Principal Dimensions			Basic Load Ratings		Speed Ratings		Mass	Designations			
d	D	B	C	C ₀	Ref. Speed	Limiting Speed		Local	SKF	FAG	NSK
mm	mm	mm	kN	kN	r/min	r/min	kg				
180	280	74	850	1270	-	560	16.1	23036 2CS5/VT143	23036 2CS5/VT143	23036	23036 2CS5/VT143
180	280	74	850	1270	-	560	16.1	23036 2CS5K/VT143	23036 2CS5K/VT143	23036	23036 2CS5K/VT143
180	280	100	1080	1730	1300	2200	23	24036 EAE4	24036 CC/W33	24036 E1	24036 EAE4
180	280	100	1080	1730	1300	2200	22.5	24036 CK30E4	24036 CCK30/W33	24036 E1.K30	24036 CK30E4
180	280	100	1080	1730	-	380	23	24036 2CS5/VT143	24036 2CS5/VT143	24036	24036 2CS5/VT143
180	300	96	1200	1760	1700	2200	28	23136 EAE4	23136 CC/W33	23136 E1	23136 EAE4
180	300	96	1200	1760	1700	2200	27	23136 EAKE4	23136 CCK/W33	23136 E1.K	23136 EAKE4
180	300	96	1200	1800	-	430	26.1	23136 2CS5/VT143	23136 2CS5/VT143	23136	23136 2CS5/VT143
180	300	96	1200	1800	-	430	26.1	23136 2CS5K/VT143	23136 2CS5K/VT143	23136	23136 2CS5K/VT143
180	300	118	1400	2160	1300	1700	34.5	24136 EAE4	24136 CC/W33	24136 E1	24136 EAE4
180	300	118	1400	2160	1300	1700	34	24136 CK30E4	24136 CCK30/W33	24136 E1.K30	24136 CK30E4
180	320	86	1180	1560	1800	2600	29.5	22236 EAE4	22236 CC/W33	22236 E1	22236 EAE4
180	320	86	1180	1560	1800	2600	29	22236 EAKE4	22236 CCK/W33	22236 E1.K	22236 EAKE4
180	320	112	1500	2120	1300	1900	39.5	23236 EAE4	23236 CC/W33	23236 E1	23236 EAE4
180	320	112	1500	2120	1300	1900	38.5	23236 EAKE4	23236 CCK/W33	23236 E1.K	23236 EAKE4
180	380	126	2000	2450	1300	1700	71.5	22336 EAE4	22336 CC/W33	22336 E1	22336 EAE4
180	380	126	2000	2450	1300	1700	71.5	22336 CCJA/W33VA405	22336 CCJA/W33VA405	22336 E1.T41	22336 CCJA/W33VA405
180	380	126	2000	2450	1300	1700	71.5	22336 CCJA/W33VA406	22336 CCJA/W33VA406	22336 E1.T41	22336 CCJA/W33VA406
180	380	126	2000	2450	1300	1700	70	22336 EAKE4	22336 CCK/W33	22336 E1.K	22336 EAKE4
180	380	126	2000	2450	1300	1700	70	22336 CCKJA/W33VA405	22336 CCKJA/W33VA405	22336 E1.T41	22336 CCKJA/W33VA405
190	260	52	414	800	2200	2600	8.3	23938 EAE4	23938 CC/W33	23938 E1	23938 EAE4
190	260	52	414	800	2200	2600	8.05	23938 EAKE4	23938 CCK/W33	23938 E1.K	23938 EAKE4
190	290	75	865	1340	1900	2400	18	23038 EAE4	23038 CC/W33	23038 E1	23038 EAE4
190	290	75	865	1340	1900	2400	17.5	23038 EAKE4	23038 CCK/W33	23038 E1.K	23038 EAKE4
190	290	100	1120	1800	1400	2000	24.5	24038 EAE4	24038 CC/W33	24038 E1	24038 EAE4
190	290	100	1120	1800	1400	2000	24	24038 CK30E4	24038 CCK30/W33	24038 E1.K30	24038 CK30E4
190	320	104	1370	2080	1500	2000	35	23138 EAE4	23138 CC/W33	23138 E1	23138 EAE4
190	320	104	1370	2080	1500	2000	34	23138 EAKE4	23138 CCK/W33	23138 E1.K	23138 EAKE4
190	320	128	1600	2500	1200	1600	43	24138 EAE4	24138 CC/W33	24138 E1	24138 EAE4
190	320	128	1600	2500	1200	1600	42.5	24138 CK30E4	24138 CCK30/W33	24138 E1.K30	24138 CK30E4
190	320	128	1 600	2 500	-	340	43	24138 2CS5/VT143	24138 2CS5/VT143	24138	24138 2CS5/VT143
190	340	92	1270	1700	1700	2400	36.5	22238 EAE4	22238 CC/W33	22238 E1	22238 EAE4
190	340	92	1270	1700	1700	2400	35.5	22238 EAKE4	22238 CCK/W33	22238 E1.K	22238 EAKE4
190	340	120	1660	2400	1300	1800	48	23238 EAE4	23238 CC/W33	23238 E1	23238 EAE4
190	340	120	1660	2400	1300	1800	46.5	23238 EAKE4	23238 CCK/W33	23238 E1.K	23238 EAKE4
190	400	132	2120	2650	1200	1600	82.5	22338 EAE4	22338 CC/W33	22338 E1	22338 EAE4
190	400	132	2120	2650	1200	1600	82.5	22338 CCJA/W33VA405	22338 CCJA/W33VA405	22338 E1.T41	22338 CCJA/W33VA405
190	400	132	2120	2650	1200	1600	82.5	22338 CCJA/W33VA406	22338 CCJA/W33VA406	22338 E1.T41	22338 CCJA/W33VA406
190	400	132	2120	2650	1200	1600	81	22338 EAKE4	22338 CCK/W33	22338 E1.K	22338 EAKE4
190	400	132	2120	2650	1200	1600	81	22338 CCKJA/W33VA405	22338 CCKJA/W33VA405	22338 E1.T41	22338 CCKJA/W33VA405
200	280	60	546	1040	2000	2400	11.5	23940 EAE4	23940 CC/W33	23940 E1	23940 EAE4
200	280	60	546	1040	2000	2400	11	23940 EAKE4	23940 CCK/W33	23940 E1.K	23940 EAKE4
200	310	82	1000	1530	1800	2200	23.3	23040 EAE4	23040 CC/W33	23040 E1	23040 EAE4
200	310	82	1000	1530	1800	2200	22.6	23040 EAKE4	23040 CCK/W33	23040 E1.K	23040 EAKE4
200	310	109	1290	2120	1300	1900	31	24040 EAE4	24040 CC/W33	24040 E1	24040 EAE4
200	310	109	1290	2120	1300	1900	30.5	24040 CK30E4	24040 CCK30/W33	24040 E1.K30	24040 CK30E4
200	340	112	1600	2360	1500	1900	43	23140 EAE4	23140 CC/W33	23140 E1	23140 EAE4
200	340	112	1600	2360	1500	1900	41.5	23140 EAKE4	23140 CCK/W33	23140 E1.K	23140 EAKE4
200	340	112	1800	2800	-	320	53.5	23140 2CS5/VT143	23140 2CS5/VT143	23140	23140 2CS5/VT143
200	340	140	1800	2800	-	320	53.5	23140 2CS5K/VT143	23140 2CS5K/VT143	23140	23140 2CS5K/VT143



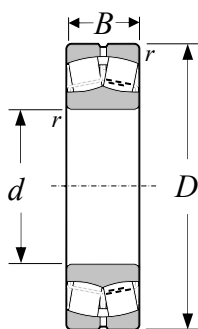
SPHERICAL ROLLER BEARINGS
Cylindrical & Tapered Bore

Table 51
Bore Diameter 200mm - 240mm

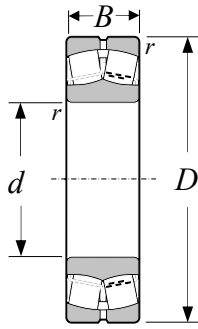
Principal Dimensions			Basic Load Ratings		Speed Ratings		Mass	Designations			
d	D	B	C	C ₀	Ref. Speed	Limiting Speed		Local	SKF	FAG	NSK
mm	mm	mm	kN	kN	r/min	r/min	kg				
200	340	140	1800	2800	1100	1500	53.5	24140 EAE4	24140 CC/W33	24140 E1	24140 EAE4
200	340	140	1800	2800	1100	1500	52.5	24140 CK30E4	24140 CCK30/W33	24140 E1.K30	24140 CK30E4
200	340	140	1800	2800	-	320	53.5	24140 2CS	24140 2CS	24140	24140 2CS
200	360	98	1460	1930	1600	2200	43.5	22240 EAE4	22240 CC/W33	22240 E1	22240 EAE4
200	360	98	1460	1930	1600	2200	42.5	22240 EAKE4	22240 CCK/W33	22240 E1.K	22240 EAKE4
200	360	128	1860	2700	1200	1700	58	23240 EAE4	23240 CC/W33	23240 E1	23240 EAE4
200	360	128	1860	2700	1200	1700	56.5	23240 EAKE4	23240 CCK/W33	23240 E1.K	23240 EAKE4
200	360	128	1860	2700	-	430	58	23240 2CS2/VT143	23240 2CS2/VT143	23240	23240 2CS2/VT143
200	360	128	1860	2700	-	430	58	23240 2CS5/VT143	23240 2CS5/VT143	23240	23240 2CS5/VT143
200	420	138	2320	2900	1200	1500	95	22340 EAE4	22340 CC/W33	22340 E1	22340 EAE4
200	420	138	2320	2900	1200	1500	95	22340 CCJA/W33VA405	22340 CCJA/W33VA405	22340 E1.T41	22340 CCJA/W33VA405
200	420	138	2320	2900	1200	1500	95	22340 CCJA/W33VA406	22340 CCJA/W33VA406	22340 E1.T41	22340 CCJA/W33VA406
200	420	138	2320	2900	1200	1500	93	22340 EAKE4	22340 CCK/W33	22340 E1.K	22340 EAKE4
200	420	138	2320	2900	1200	1500	93	22340 CCKJA/W33VA405	22340 CCKJA/W33VA405	22340 E1.T41	22340 CCKJA/W33VA405
220	300	60	546	1080	1900	2200	12.5	23944 EAE4	23944 CC/W33	23944 E1	23944 EAE4
220	300	60	546	1080	1900	2200	12	23944 EAKE4	23944 CCK/W33	23944 E1.K	23944 EAKE4
220	300	60	546	1080	-	600	12.5	23944 2CS/VT143	23944 2CS/VT143	23944	23944 2CS/VT143
220	340	90	1220	1860	1600	2000	30.5	23044 EAE4	23044 CC/W33	23044 E1	23044 EAE4
220	340	90	1220	1860	1600	2000	29.5	23044 EAKE4	23044 CCK/W33	23044 E1.K	23044 EAKE4
220	340	118	1560	2600	1200	1700	40	24044 EAE4	24044 CC/W33	24044 E1	24044 EAE4
220	340	118	1560	2600	1200	1700	39.5	24044 CK30E4	24044 CCK30/W33	24044 E1.K30	24044 CK30E4
220	370	120	1800	2750	1300	1700	53.5	23144 EAE4	23144 CC/W33	23144 E1	23144 EAE4
220	370	120	1800	2750	1300	1700	52	23144 EAKE4	23144 CCK/W33	23144 E1.K	23144 EAKE4
220	370	150	2120	3350	1000	1400	67	24144 EAE4	24144 CC/W33	24144 E1	24144 EAE4
220	370	150	2120	3350	1000	1400	66	24144 CK30E4	24144 CCK30/W33	24144 E1.K30	24144 CK30E4
220	400	108	1760	2360	1500	2000	60.5	22244 EAE4	22244 CC/W33	22244 E1	22244 EAE4
220	400	108	1760	2360	1500	2000	59	22244 EAKE4	22244 CCK/W33	22244 E1.K	22244 EAKE4
220	400	144	2360	3450	1100	1500	81.5	23244 EAE4	23244 CC/W33	23244 E1	23244 EAE4
220	400	144	2360	3450	1100	1500	79	23244 EAKE4	23244 CCK/W33	23244 E1.K	23244 EAKE4
220	460	145	2700	3450	1000	1400	120	22344 EAE4	22344 CC/W33	22344 E1	22344 EAE4
220	460	145	2700	3450	1000	1400	120	22344 CCJA/W33VA405	22344 CCJA/W33VA405	22344 E1.T41	22344 CCJA/W33VA405
220	460	145	2700	3450	1000	1400	115	22344 EAKE4	22344 CCK/W33	22344 E1.K	22344 EAKE4
220	460	145	2700	3450	1000	1400	115	22344 CCKJA/W33VA405	22344 CCKJA/W33VA405	22344 E1.T41	22344 CCKJA/W33VA405
240	320	60	564	1160	1700	2000	13.5	23948 EAE4	23948 CC/W33	23948 E1	23948 EAE4
240	320	60	564	1160	1700	2000	13	23948 EAKE4	23948 CCK/W33	23948 E1.K	23948 EAKE4
240	360	92	1290	2080	1500	1900	33.5	23048 EAE4	23048 CC/W33	23048 E1	23048 EAE4
240	360	92	1290	2080	1500	1900	32.5	23048 EAKE4	23048 CCK/W33	23048 E1.K	23048 EAKE4
240	360	118	1600	2700	1100	1600	43	24048 EAE4	24048 CC/W33	24048 E1	24048 EAE4
240	360	118	1600	2700	1100	1600	42.5	24048 CK30E4	24048 CCK30/W33	24048 E1.K30	24048 CK30E4
240	400	128	2080	3200	1200	1600	66.5	23148 EAE4	23148 CC/W33	23148 E1	23148 EAE4
240	400	128	2080	3200	1200	1600	64.5	23148 EAKE4	23148 CCK/W33	23148 E1.K	23148 EAKE4
240	400	160	2400	3900	900	1300	83	24148 EAE4	24148 CC/W33	24148 E1	24148 EAE4
240	400	160	2400	3900	900	1300	81.5	24148 CK30E4	24148 CCK30/W33	24148 E1.K30	24148 CK30E4
240	440	120	2200	3000	1300	1800	83	22248 EAE4	22248 CC/W33	22248 E1	22248 EAE4
240	440	120	2200	3000	1300	1800	81	22248 EAKE4	22248 CCK/W33	22248 E1.K	22248 EAKE4
240	440	160	2900	4300	950	1300	110	23248 EAE4	23248 CC/W33	23248 E1	23248 EAE4
240	440	160	2900	4300	950	1300	105	23248 EAKE4	23248 CCK/W33	23248 E1.K	23248 EAKE4
240	500	155	3100	4000	950	1300	155	22348 EAE4	22348 CC/W33	22348 E1	22348 EAE4
240	500	155	3100	4000	950	1300	155	22348 CCJA/W33VA405	22348 CCJA/W33VA405	22348 E1.T41	22348 CCJA/W33VA405
240	500	155	3100	4000	950	1300	150	22348 EAKE4	22348 CCK/W33	22348 E1.K	22348 EAKE4

SPHERICAL ROLLER BEARINGS
Cylindrical & Tapered Bore

Table 52
Bore Diameter 240mm - 320mm



Principal Dimensions			Basic Load Ratings		Speed Ratings		Mass	Designations			
d	D	B	C	C ₀	Ref. Speed	Limiting Speed		Local	SKF	FAG	NSK
mm	mm	mm	kN	kN	r/min	r/min	kg				
240	500	155	3100	4000	950	1300	150	22348 CCKJA/W33VA405	22348 CCKJA/W33VA405	22348 E1.T41	22348 CCKJA/W33VA405
260	360	75	880	1800	1500	1900	23.5	23952 EAE4	23952 CC/W33	23952 E1	23952 EAE4
260	360	75	880	1800	1500	1900	22.5	23952 EAKE4	23952 CCK/W33	23952 E1.K	23952 EAKE4
260	400	104	1600	2550	1300	1700	48.5	23052 EAE4	23052 CC/W33	23052 E1	23052 EAE4
260	400	104	1600	2550	1300	1700	47	23052 EAKE4	23052 CCK/W33	23052 E1.K	23052 EAKE4
260	400	140	2040	3450	1000	1400	65.5	24052 EAE4	24052 CC/W33	24052 E1	24052 EAE4
260	400	140	2040	3450	1000	1400	64.5	24052 CK30E4	24052 CCK30/W33	24052 E1.K30	24052 CK30E4
260	440	144	2550	3900	1100	1400	90.5	23152 EAE4	23152 CC/W33	23152 E1	23152 EAE4
260	440	144	2550	3900	1100	1400	87.5	23152 EAKE4	23152 CCK/W33	23152 E1.K	23152 EAKE4
260	440	180	3000	4800	850	1200	110	24152 EAE4	24152 CC/W33	24152 E1	24152 EAE4
260	440	180	3000	4800	850	1200	110	24152 CK30E4	24152 CCK30/W33	24152 E1.K30	24152 CK30E4
260	480	130	2650	3550	1200	1600	110	22252 EAE4	22252 CC/W33	22252 E1	22252 EAE4
260	480	130	2650	3550	1200	1600	108	22252 EAKE4	22252 CCK/W33	22252 E1.K	22252 EAKE4
260	480	174	3250	4750	850	1200	140	23252 EAE4	23252 CC/W33	23252 E1	23252 EAE4
260	480	174	3250	4750	850	1200	135	23252 EAKE4	23252 CCK/W33	23252 E1.K	23252 EAKE4
260	540	165	3550	4550	850	1100	190	22352 EAE4	22352 CC/W33	22352 E1	22352 EAE4
260	540	165	3550	4550	850	1100	185	22352 EAKE4	22352 CCK/W33	22352 E1.K	22352 EAKE4
280	380	75	845	1760	1400	1700	25	23956 EAE4	23956 CC/W33	23956 E1	23956 EAE4
280	380	75	845	1760	1400	1700	24	23956 EAKE4	23956 CCK/W33	23956 E1.K	23956 EAKE4
280	420	106	1730	2850	1300	1600	52.5	23056 EAE4	23056 CC/W33	23056 E1	23056 EAE4
280	420	106	1730	2850	1300	1600	51	23056 EAKE4	23056 CCK/W33	23056 E1.K	23056 EAKE4
280	420	140	2160	3800	950	1400	69.5	24056 EAE4	24056 CC/W33	24056 E1	24056 EAE4
280	420	140	2160	3800	950	1400	68.5	24056 CK30E4	24056 CCK30/W33	24056 E1.K30	24056 CK30E4
280	460	146	2650	4250	1000	1300	97	23156 EAE4	23156 CC/W33	23156 E1	23156 EAE4
280	460	146	2650	4250	1000	1300	94	23156 EAKE4	23156 CCK/W33	23156 E1.K	23156 EAKE4
280	460	180	3100	5100	800	1100	120	24156 EAE4	24156 CC/W33	24156 E1	24156 EAE4
280	460	180	3100	5100	800	1100	120	24156 CK30E4	24156 CCK30/W33	24156 E1.K30	24156 CK30E4
280	500	130	2700	3750	1100	1500	115	22256 EAE4	22256 CC/W33	22256 E1	22256 EAE4
280	500	130	2700	3750	1100	1500	115	22256 EAKE4	22256 CCK/W33	22256 E1.K	22256 EAKE4
280	500	176	3250	4900	800	1100	150	23256 EAE4	23256 CC/W33	23256 E1	23256 EAE4
280	500	176	3250	4900	800	1100	145	23256 EAKE4	23256 CCK/W33	23256 E1.K	23256 EAKE4
280	580	175	4000	5200	800	1100	235	22356 EAE4	22356 CC/W33	22356 E1	22356 EAE4
280	580	175	4000	5200	800	1100	230	22356 EAKE4	22356 CCK/W33	22356 E1.K	22356 EAKE4
300	420	90	1200	2500	1300	1600	39.5	23960 EAE4	23960 CC/W33	23960 E1	23960 EAE4
300	420	90	1200	2500	1300	1600	38	23960 EAKE4	23960 CCK/W33	23960 E1.K	23960 EAKE4
300	460	118	2120	3450	1200	1500	71.5	23060 EAE4	23060 CC/W33	23060 E1	23060 EAE4
300	460	118	2120	3450	1200	1500	69.5	23060 EAKE4	23060 CCK/W33	23060 E1.K	23060 EAKE4
300	460	160	2700	4750	850	1200	97	24060 EAE4	24060 CC/W33	24060 E1	24060 EAE4
300	460	160	2700	4750	850	1200	95.5	24060 CK30E4	24060 CCK30/W33	24060 E1.K30	24060 CK30E4
300	500	160	3200	5100	950	1200	125	23160 EAE4	23160 CC/W33	23160 E1	23160 EAE4
300	500	160	3200	5100	950	1200	120	23160 EAKE4	23160 CCK/W33	23160 E1.K	23160 EAKE4
300	500	200	3750	6300	700	1000	160	24160 EAE4	24160 CC/W33	24160 E1	24160 EAE4
300	500	200	3750	6300	700	1000	160	24160 CK30E4	24160 CCK30/W33	24160 E1.K30	24160 CK30E4
300	540	140	3150	4250	1000	1400	145	22260 EAE4	22260 CC/W33	22260 E1	22260 EAE4
300	540	140	3150	4250	1000	1400	140	22260 EAKE4	22260 CCK/W33	22260 E1.K	22260 EAKE4
300	540	192	3900	5850	750	1000	190	23260 EAE4	23260 CC/W33	23260 E1	23260 EAE4
300	540	192	3900	5850	750	1000	185	23260 EAKE4	23260 CCK/W33	23260 E1.K	23260 EAKE4
320	440	90	1430	2700	1400	1500	42	23964 EAE4	23964 CC/W33	23964 E1	23964 EAE4
320	440	90	1430	2700	1400	1500	40.5	23964 EAKE4	23964 CCK/W33	23964 E1.K	23964 EAKE4
320	480	121	2240	3800	1100	1400	78	23064 EAE4	23064 CC/W33	23064 E1	23064 EAE4



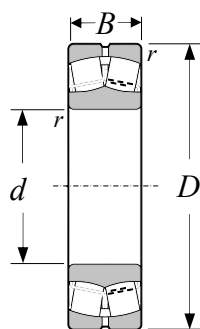
SPHERICAL ROLLER BEARINGS
Cylindrical & Tapered Bore

Table 53
Bore Diameter 320mm - 400mm

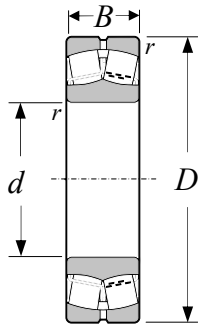
Principal Dimensions			Basic Load Ratings		Speed Ratings		Mass	Designations			
d	D	B	C	C ₀	Ref. Speed	Limiting Speed		Local	SKF	FAG	NSK
mm	mm	mm	kN	kN	r/min	r/min	kg				
320	480	121	2240	3800	1100	1400	75.5	23064 EAKE4	23064 CCK/W33	23064 E1.K	23064 EAKE4
320	480	160	2850	5100	800	1200	100	24064 EAE4	24064 CC/W33	24064 E1	24064 EAE4
320	480	160	2850	5100	800	1200	98.5	24064 CK30E4	24064 CCK30/W33	24064 E1.K30	24064 CK30E4
320	540	176	3750	6000	850	1100	165	23164 EAE4	23164 CC/W33	23164 E1	23164 EAE4
320	540	176	3750	6000	850	1100	160	23164 EAKE4	23164 CCK/W33	23164 E1.K	23164 EAKE4
320	540	218	4250	7100	670	900	210	24164 EAE4	24164 CC/W33	24164 E1	24164 EAE4
320	540	218	4250	7100	670	900	205	24164 CK30E4	24164 CCK30/W33	24164 E1.K30	24164 CK30E4
320	580	150	3600	4900	950	1300	175	22264 EAE4	22264 CC/W33	22264 E1	22264 EAE4
320	580	150	3600	4900	950	1300	170	22264 EAKE4	22264 CCK/W33	22264 E1.K	22264 EAKE4
320	580	208	4400	6700	700	950	240	23264 EAE4	23264 CC/W33	23264 E1	23264 EAE4
320	580	208	4400	6700	700	950	235	23264 EAKE4	23264 CCK/W33	23264 E1.K	23264 EAKE4
340	460	90	1460	2800	1300	1400	45.5	23968 EAE4	23968 CC/W33	23968 E1	23968 EAE4
340	460	90	1460	2800	1300	1400	43	23968 EAKE4	23968 CCK/W33	23968 E1.K	23968 EAKE4
340	520	133	2700	4550	1000	1300	105	23068 EAE4	23068 CC/W33	23068 E1	23068 EAE4
340	520	133	2700	4550	1000	1300	100	23068 EAKE4	23068 CCK/W33	23068 E1.K	23068 EAKE4
340	520	180	3450	6200	750	1100	140	24068 EAE4	24068 CC/W33	24068 E1	24068 EAE4
340	520	180	3450	6200	750	1100	140	24068 CK30E4	24068 CCK30/W33	24068 E1.K30	24068 CK30E4
340	580	190	4250	6800	800	1000	210	23168 EAE4	23168 CC/W33	23168 E1	23168 EAE4
340	580	190	4250	6800	800	1000	205	23168 EAKE4	23168 CCK/W33	23168 E1.K	23168 EAKE4
340	580	243	5300	8650	600	850	280	24168 EAE4	24168 ECCJ/W33	24168 E1	24168 EAE4
340	580	243	5300	8650	600	850	275	24168 CK30E4	24168 ECCK30J/W33	24168 E1.K30	24168 CK30E4
340	620	224	5100	7800	560	800	295	23268 EAE4	23268 CA/W33	23268 E1	23268 EAE4
340	620	224	5100	7800	560	800	285	23268 EAKE4	23268 CAK/W33	23268 E1.K	23268 EAKE4
360	480	90	1400	2750	1200	1300	46	23972 EAE4	23972 CC/W33	23972 E1	23972 EAE4
360	480	90	1400	2750	1200	1300	45	23972 EAKE4	23972 CCK/W33	23972 E1.K	23972 EAKE4
360	540	134	2750	4800	950	1200	110	23072 EAE4	23072 CC/W33	23072 E1	23072 EAE4
360	540	134	2750	4800	950	1200	105	23072 EAKE4	23072 CCK/W33	23072 E1.K	23072 EAKE4
360	540	180	3550	6550	700	1000	145	24072 EAE4	24072 CC/W33	24072 E1	24072 EAE4
360	540	180	3550	6550	700	1000	145	24072 CK30E4	24072 CCK30/W33	24072 E1.K30	24072 CK30E4
360	600	192	4300	6950	750	1000	220	23172 EAE4	23172 CC/W33	23172 E1	23172 EAE4
360	600	192	4300	6950	750	1000	215	23172 EAKE4	23172 CCK/W33	23172 E1.K	23172 EAKE4
360	600	243	5600	9300	560	800	280	24172 EAE4	24172 ECCJ/W33	24172 E1	24172 EAE4
360	600	243	5600	9300	560	800	275	24172 CK30E4	24172 ECCK30J/W33	24172 E1.K30	24172 CK30E4
360	650	170	4300	6200	630	850	255	22272 EAE4	22272 CA/W33	22272 E1	22272 EAE4
360	650	170	4300	6200	630	850	250	22272 EAKE4	22272 CAK/W33	22272 E1.K	22272 EAKE4
360	650	232	5400	8300	530	750	335	23272 EAE4	23272 CA/W33	23272 E1	23272 EAE4
360	650	232	5400	8300	530	750	325	23272 EAKE4	23272 CAK/W33	23272 E1.K	23272 EAKE4
380	520	106	1960	3800	1100	1200	69	23976 EAE4	23976 CC/W33	23976 E1	23976 EAE4
380	520	106	1960	3800	1100	1200	64.5	23976 EAKE4	23976 CCK/W33	23976 E1.K	23976 EAKE4
380	560	135	2900	5000	900	1200	115	23076 EAE4	23076 CC/W33	23076 E1	23076 EAE4
380	560	135	2900	5000	900	1200	110	23076 EAKE4	23076 CCK/W33	23076 E1.K	23076 EAKE4
380	560	180	3600	6800	670	950	150	24076 EAE4	24076 CC/W33	24076 E1	24076 EAE4
380	560	180	3600	6800	670	950	145	24076 CK30E4	24076 CCK30/W33	24076 E1.K30	24076 CK30E4
380	620	194	4400	7100	560	1000	230	23176 EAE4	23176 CA/W33	23176 E1	23176 EAE4
380	620	194	4400	7100	560	1000	225	23176 EAKE4	23176 CAK/W33	23176 E1.K	23176 EAKE4
380	620	243	5700	9800	480	850	300	24176 EAE4	24176 ECA/W33	24176 E1	24176 EAE4
380	620	243	5700	9800	480	850	295	24176 CK30E4	24176 ECAK30/W33	24176 E1.K30	24176 CK30E4
380	680	240	5850	9150	500	750	375	23276 EAE4	23276 CA/W33	23276 E1	23276 EAE4
380	680	240	5850	9150	500	750	365	23276 EAKE4	23276 CAK/W33	23276 E1.K	23276 EAKE4
400	540	106	2000	3900	1100	1200	71	23980 EAE4	23980 CC/W33	23980 E1	23980 EAE4

SPHERICAL ROLLER BEARINGS
Cylindrical & Tapered Bore

Table 54
Bore Diameter 400mm - 460mm



Principal Dimensions			Basic Load Ratings		Speed Ratings		Mass	Designations			
d	D	B	C	C ₀	Ref. Speed	Limiting Speed		Local	SKF	FAG	NSK
mm	mm	mm	kN	kN	r/min	r/min	kg				
400	540	106	2000	3900	1100	1200	68.5	23980 EAKE4	23980 CCK/W33	23980 E1.K	23980 EAKE4
400	600	148	3250	5700	850	1100	150	23080 EAE4	23080 CC/W33	23080 E1	23080 EAE4
400	600	148	3250	5700	850	1100	145	23080 EAKE4	23080 CCK/W33	23080 E1.K	23080 EAKE4
400	600	200	4300	8000	630	900	205	24080 EAE4	24080 ECCJ/W33	24080 E1	24080 EAE4
400	600	200	4300	8000	630	900	200	24080 CK30E4	24080 ECCK30J/W33	24080 E1.K30	24080 CK30E4
400	650	200	4650	7650	530	950	265	23180 EAE4	23180 CA/W33	23180 E1	23180 EAE4
400	650	200	4650	7650	530	950	255	23180 EAKE4	23180 CAK/W33	23180 E1.K	23180 EAKE4
400	650	250	6200	10600	430	800	340	24180 EAE4	24180 ECA/W33	24180 E1	24180 EAE4
400	650	250	6200	10600	430	800	335	24180 CK30E4	24180 ECAK30/W33	24180 E1.K30	24180 CK30E4
400	720	256	6550	10400	480	670	450	23280 EAE4	23280 CA/W33	23280 E1	23280 EAE4
400	720	256	6550	10400	480	670	435	23280 EAKE4	23280 CAK/W33	23280 E1.K	23280 EAKE4
400	820	243	7500	10400	430	750	650	22380 EAE4	22380 CA/W33	22380 E1	22380 EAE4
400	820	243	7500	10400	430	750	640	22380 EAKE4	22380 CAK/W33	22380 E1.K	22380 EAKE4
420	560	106	2040	4150	1000	1100	74.5	23984 EAE4	23984 CC/W33	23984 E1	23984 EAE4
420	560	106	2040	4150	1000	1100	72	23984 EAKE4	23984 CCK/W33	23984 E1.K	23984 EAKE4
420	620	150	3400	6000	600	1100	155	23084 EAE4	23084 CA/W33	23084 E1	23084 EAE4
420	620	150	3400	6000	600	1100	150	23084 EAKE4	23084 CAK/W33	23084 E1.K	23084 EAKE4
420	620	200	4400	8300	530	900	210	24084 EAE4	24084 ECA/W33	24084 E1	24084 EAE4
420	620	200	4400	8300	530	900	205	24084 CK30E4	24084 ECAK30/W33	24084 E1.K30	24084 CK30E4
420	700	224	5600	9300	480	900	350	23184 EAE4	23184 CJ/W33	23184 E1	23184 EAE4
420	700	224	5600	9300	480	900	340	23184 EAKE4	23184 CKJ/W33	23184 E1.K	23184 EAKE4
420	700	280	7350	12600	400	700	445	24184 EAE4	24184 ECA/W33	24184 E1	24184 EAE4
420	700	280	7350	12600	400	700	440	24184 CK30E4	24184 ECAK30/W33	24184 E1.K30	24184 CK30E4
420	760	272	7350	11600	450	630	535	23284 EAE4	23284 CA/W33	23284 E1	23284 EAE4
420	760	272	7350	11600	450	630	520	23284 EAKE4	23284 CAK/W33	23284 E1.K	23284 EAKE4
440	600	118	2450	4900	950	1000	99.5	23988 EAE4	23988 CC/W33	23988 E1	23988 EAE4
440	600	118	2450	4900	950	1000	96.5	23988 EAKE4	23988 CCK/W33	23988 E1.K	23988 EAKE4
440	650	157	3650	6550	560	1000	180	23088 EAE4	23088 CA/W33	23088 E1	23088 EAE4
440	650	157	3650	6550	560	1000	175	23088 EAKE4	23088 CAK/W33	23088 E1.K	23088 EAKE4
440	650	212	4800	9150	500	850	245	24088 EAE4	24088 ECA/W33	24088 E1	24088 EAE4
440	650	212	4800	9150	500	850	240	24088 CK30E4	24088 ECAK30/W33	24088 E1.K30	24088 CK30E4
440	720	226	6000	10000	450	850	360	23188 EAE4	23188 CA/W33	23188 E1	23188 EAE4
440	720	226	6000	10000	450	850	350	23188 EAKE4	23188 CAK/W33	23188 E1.K	23188 EAKE4
440	720	280	7500	13200	400	700	460	24188 EAE4	24188 ECA/W33	24188 E1	24188 EAE4
440	720	280	7500	13200	400	700	455	24188 CK30E4	24188 ECAK30/W33	24188 E1.K30	24188 CK30E4
440	790	280	7800	12500	430	600	590	23288 EAE4	23288 CA/W33	23288 E1	23288 EAE4
440	790	280	7800	12500	430	600	570	23288 EAKE4	23288 CAK/W33	23288 E1.K	23288 EAKE4
460	580	118	1790	4900	560	1100	74	24892 CK30E4	24892 CAK30MA/W20	24892 E1.K30	24892 CK30E4
460	580	118	1790	4900	560	1100	75.5	24892 CAME4	24892 CAMA/W20	24892 B.MB	24892 CAME4
460	620	118	2500	5000	600	1000	105	23992 EAE4	23992 CA/W33	23992 E1	23992 EAE4
460	620	118	2500	5000	600	1000	100	23992 EAKE4	23992 CAK/W33	23992 E1.K	23992 EAKE4
460	680	163	3900	6950	560	950	205	23092 EAE4	23092 CA/W33	23092 E1	23092 EAE4
460	680	163	3900	6950	560	950	200	23092 EAKE4	23092 CAK/W33	23092 E1.K	23092 EAKE4
460	680	218	5200	10000	480	800	275	24092 EAE4	24092 ECA/W33	24092 E1	24092 EAE4
460	680	218	5200	10000	480	800	270	24092 CK30E4	24092 ECAK30/W33	24092 E1.K30	24092 CK30E4
460	760	240	6400	10800	430	800	440	23192 EAE4	23192 CA/W33	23192 E1	23192 EAE4
460	760	240	6400	10800	430	800	425	23192 EAKE4	23192 CAK/W33	23192 E1.K	23192 EAKE4
460	760	300	8300	14600	360	670	560	24192 EAE4	24192 ECA/W33	24192 E1	24192 EAE4
460	760	300	8300	14600	360	670	550	24192 CK30E4	24192 ECAK30/W33	24192 E1.K30	24192 CK30E4
460	830	296	8500	13700	400	560	695	23292 EAE4	23292 CA/W33	23292 E1	23292 EAE4



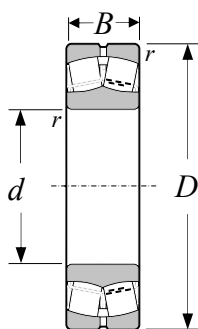
SPHERICAL ROLLER BEARINGS
Cylindrical & Tapered Bore

Table 55
Bore Diameter 460mm - 560mm

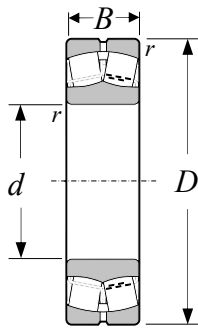
Principal Dimensions			Basic Load Ratings		Speed Ratings		Mass	Designations			
d	D	B	C	C ₀	Ref. Speed	Limiting Speed		Local	SKF	FAG	NSK
mm	mm	mm	kN	kN	r/min	r/min	kg				
460	830	296	8500	13700	400	560	675	23292 EAKE4	23292 CAK/W33	23292 E1.K	23292 EAKE4
480	650	128	2900	5700	560	1000	125	23996 EAE4	23996 CA/W33	23996 E1	23996 EAE4
480	650	128	2900	5700	560	1000	120	23996 EAKE4	23996 CAK/W33	23996 E1.K	23996 EAKE4
480	700	165	3900	6800	530	950	215	23096 EAE4	23096 CA/W33	23096 E1	23096 EAE4
480	700	165	3900	6800	530	950	210	23096 EAKE4	23096 CAK/W33	23096 E1.K	23096 EAKE4
480	700	218	5300	10400	450	750	285	24096 EAE4	24096 ECA/W33	24096 E1	24096 EAE4
480	700	218	5300	10400	450	750	280	24096 CK30E4	24096 ECAK30/W33	24096 E1.K30	24096 CK30E4
480	790	248	6950	12000	400	750	485	23196 EAE4	23196 CA/W33	23196 E1	23196 EAE4
480	790	248	6950	12000	400	750	470	23196 EAKE4	23196 CAK/W33	23196 E1.K	23196 EAKE4
480	790	308	9000	15600	340	630	605	24196 EAE4	24196 ECA/W33	24196 E1	24196 EAE4
480	790	308	9000	15600	340	630	595	24196 CK30E4	24196 ECAK30/W33	24196 E1.K30	24196 CK30E4
480	870	310	9300	15000	380	530	800	23296 EAE4	23296 CA/W33	23296 E1	23296 EAE4
480	870	310	9300	15000	380	530	775	23296 EAKE4	23296 CAK/W33	23296 E1.K	23296 EAKE4
500	670	128	2900	6000	530	950	130	239/500 EAE4	239/500 CA/W33	239/500 E1	239/500 EAE4
500	670	128	2900	6000	530	950	125	239/500 EAKE4	239/500 CAK/W33	239/500 E1.K	239/500 EAKE4
500	720	167	4150	7800	500	900	225	230/500 EAE4	230/500 CA/W33	230/500 E1	230/500 EAE4
500	720	167	4150	7800	500	900	220	230/500 EAKE4	230/500 CAK/W33	230/500 E1.K	230/500 EAKE4
500	720	218	5500	11000	430	700	295	240/500 EAE4	240/500 ECA/W33	240/500 E1	240/500 EAE4
500	720	218	5500	11000	430	700	290	240/500 CK30E4	240/500 ECAK30/W33	240/500 E1.K30	240/500 CK30E4
500	830	264	7650	12900	380	700	580	231/500 EAE4	231/500 CA/W33	231/500 E1	231/500 EAE4
500	830	264	7650	12900	380	700	560	231/500 EAKE4	231/500 CAK/W33	231/500 E1.K	231/500 EAKE4
500	830	325	9800	17000	320	600	700	241/500 EAE4	241/500 ECA/W33	241/500 E1	241/500 EAE4
500	830	325	9800	17000	320	600	690	241/500 CK30E4	241/500 ECAK30/W33	241/500 E1.K30	241/500 CK30E4
500	920	336	10600	17300	360	500	985	232/500 EAE4	232/500 CA/W33	232/500 E1	232/500 EAE4
500	920	336	10600	17300	360	500	955	232/500 EAKE4	232/500 CAK/W33	232/500 E1.K	232/500 EAKE4
530	650	118	1840	5300	480	950	84.5	248/530 CK30E4	248/530 CAK30MA/W20	248/530 BK30.M	248/530 CK30E4
530	650	118	1840	5300	480	950	86	248/530 CAME4	248/530 CAMA/W20	248/530 B.MB	248/530 CAME4
530	710	136	3200	6700	500	900	155	239/530 EAE4	239/530 CA/W33	239/530 E1	239/530 EAE4
530	710	136	3200	6700	500	900	150	239/530 EAKE4	239/530 CAK/W33	239/530 E1.K	239/530 EAKE4
530	780	185	5100	9300	450	800	310	230/530 EAE4	230/530 CA/W33	230/530 E1	230/530 EAE4
530	780	185	5100	9300	450	800	300	230/530 EAKE4	230/530 CAK/W33	230/530 E1.K	230/530 EAKE4
530	780	250	6700	13200	400	670	410	240/530 EAE4	240/530 ECA/W33	240/530 E1	240/530 EAE4
530	780	250	6700	13200	400	670	405	240/530 CK30E4	240/530 ECAK30/W33	240/530 E1.K30	240/530 CK30E4
530	870	272	8150	14000	360	670	645	231/530 EAE4	231/530 CA/W33	231/530 E1	231/530 EAE4
530	870	272	8150	14000	360	670	625	231/530 EAKE4	231/530 CAK/W33	231/530 E1.K	231/530 EAKE4
530	870	335	10600	19000	300	560	830	241/530 EAE4	241/530 ECA/W33	241/530 E1	241/530 EAE4
530	870	335	10600	19000	300	560	820	241/530 CK30E4	241/530 ECAK30/W33	241/530 E1.K30	241/530 CK30E4
530	980	355	11100	20400	300	480	1200	232/530 EAE4	232/530 CA/W33	232/530 E1	232/530 EAE4
530	980	355	11100	20400	300	480	1165	232/530 EAKE4	232/530 CAK/W33	232/530 E1.K	232/530 EAKE4
560	750	140	3450	7200	450	850	175	239/560 EAE4	239/560 CA/W33	239/560 E1	239/560 EAE4
560	750	140	3450	7200	450	850	170	239/560 EAKE4	239/560 CAK/W33	239/560 E1.K	239/560 EAKE4
560	820	195	5600	10200	430	750	355	230/560 EAE4	230/560 CA/W33	230/560 E1	230/560 EAE4
560	820	195	5600	10200	430	750	345	230/560 EAKE4	230/560 CAK/W33	230/560 E1.K	230/560 EAKE4
560	820	258	7350	14600	380	630	465	240/560 EAE4	240/560 ECA/W33	240/560 E1	240/560 EAE4
560	820	258	7350	14600	380	630	455	240/560 CK30E4	240/560 ECAK30/W33	240/560 E1.K30	240/560 CK30E4
560	920	280	9150	16000	340	630	740	231/560 EAE4	231/560 CA/W33	231/560 E1	231/560 EAE4
560	920	280	9150	16000	340	630	715	231/560 EAKE4	231/560 CAK/W33	231/560 E1.K	231/560 EAKE4
560	920	355	12000	21600	280	500	985	241/560 EAE4	241/560 ECK/W33	241/560 E1	241/560 EAE4
560	920	355	12000	21600	280	500	975	241/560 CK30E4	241/560 ECK30J/W33	241/560 E1.K30	241/560 CK30E4
560	1030	365	11500	22000	280	430	1350	232/560 EAE4	232/560 CA/W33	232/560 E1	232/560 EAE4

SPHERICAL ROLLER BEARINGS
Cylindrical & Tapered Bore

Table 56
Bore Diameter 560mm - 710mm



Principal Dimensions			Basic Load Ratings		Speed Ratings		Mass	Designations			
d	D	B	C	C ₀	Ref. Speed	Limiting Speed		Local	SKF	FAG	NSK
mm	mm	mm	kN	kN	r/min	r/min	kg				
560	1030	365	11500	22000	280	430	1310	232/560 EAKE4	232/560 CAK/W33	232/560 E1.K	232/560 EAKE4
600	800	150	3900	8300	430	750	220	239/600 EAE4	239/600 CA/W33	239/600 E1	239/600 EAE4
600	800	150	3900	8300	430	750	215	239/600 EAKE4	239/600 CAK/W33	239/600 E1.K	239/600 EAKE4
600	870	200	6000	11400	400	700	405	230/600 EAE4	230/600 CA/W33	230/600 E1	230/600 EAE4
600	870	200	6000	11400	400	700	395	230/600 EAKE4	230/600 CAK/W33	230/600 E1.K	230/600 EAKE4
600	870	272	8150	17000	340	560	520	240/600 EAE4	240/600 ECAF/W33	240/600 E1	240/600 EAE4
600	870	272	8150	17000	340	560	510	240/600 CK30E4	240/600 ECAK30F/W33	240/600 E1.K30	240/600 CK30E4
600	980	300	10200	18000	320	560	895	231/600 EAE4	231/600 CA/W33	231/600 E1	231/600 EAE4
600	980	300	10200	18000	320	560	865	231/600 EAKE4	231/600 CAK/W33	231/600 E1.K	231/600 EAKE4
600	980	375	11500	23600	240	480	1200	241/600 EAE4	241/600 ECA/W33	241/600 E1	241/600 EAE4
600	980	375	11500	23600	240	480	1185	241/600 CK30E4	241/600 ECAK30/W33	241/600 E1.K30	241/600 CK30E4
600	1090	388	13100	25500	260	400	1600	232/600 EAE4	232/600 CA/W33	232/600 E1	232/600 EAE4
600	1090	388	13100	25500	260	400	1555	232/600 EAKE4	232/600 CAK/W33	232/600 E1.K	232/600 EAKE4
630	780	112	2190	6100	400	750	115	238/630 CAMKE4	238/630 CAKMA/W20	238/630 BK.MB	238/630 CAMKE4
630	780	112	2190	6100	400	750	120	238/630 CAME4	238/630 CAMA/W20	238/630 B.MB	238/630 CAME4
630	850	165	4650	9800	400	700	280	239/630 EAE4	239/630 CA/W33	239/630 E1	239/630 EAE4
630	850	165	4650	9800	400	700	270	239/630 EAKE4	239/630 CAK/W33	239/630 E1.K	239/630 EAKE4
630	920	212	6700	12500	380	670	485	230/630 EAE4	230/630 CA/W33	230/630 E1	230/630 EAE4
630	920	212	6700	12500	380	670	470	230/630 EAKE4	230/630 CAK/W33	230/630 E1.K	230/630 EAKE4
630	920	290	8800	18000	320	530	645	240/630 EAE4	240/630 ECJ/W33	240/630 E1	240/630 EAE4
630	920	290	8800	18000	320	530	635	240/630 CK30E4	240/630 ECK30J/W33	240/630 E1.K30	240/630 CK30E4
630	1030	315	10500	20800	260	530	1050	231/630 EAE4	231/630 CA/W33	231/630 E1	231/630 EAE4
630	1030	315	10500	20800	260	530	1015	231/630 EAKE4	231/630 CAK/W33	231/630 E1.K	231/630 EAKE4
630	1030	400	12700	27000	220	450	1400	241/630 EAE4	241/630 ECA/W33	241/630 E1	241/630 EAE4
630	1030	400	12700	27000	220	450	1380	241/630 CK30E4	241/630 ECAK30/W33	241/630 E1.K30	241/630 CK30E4
670	820	112	2250	6400	360	700	125	238/670 CAMKE4	238/670 CAKMA/W20	238/670 BK.MB	238/670 CAMKE4
670	820	112	2250	6400	360	700	130	238/670 CAME4	238/670 CAMA/W20	238/670 B.MB	238/670 CAME4
670	820	150	3110	9500	360	700	172	248/670 CAME4	248/670 CAMA/W20	248/670 B.MB	248/670 CAME4
670	900	170	5000	10800	360	670	315	239/670 EAE4	239/670 CA/W33	239/670 E1	239/670 EAE4
670	900	170	5000	10800	360	670	305	239/670 EAKE4	239/670 CAK/W33	239/670 E1.K	239/670 EAKE4
670	980	230	7650	14600	340	600	600	230/670 EAE4	230/670 CA/W33	230/670 E1	230/670 EAE4
670	980	230	7650	14600	340	600	580	230/670 EAKE4	230/670 CAK/W33	230/670 E1.K	230/670 EAKE4
670	980	308	10000	20400	300	500	790	240/670 EAE4	240/670 ECA/W33	240/670 E1	240/670 EAE4
670	980	308	10000	20400	300	500	775	240/670 CK30E4	240/670 ECAK30/W33	240/670 E1.K30	240/670 CK30E4
670	1090	336	10900	22400	240	500	1250	231/670 EAE4	231/670 CA/W33	231/670 E1	231/670 EAE4
670	1090	336	10900	22400	240	500	1210	231/670 EAKE4	231/670 CAK/W33	231/670 E1.K	231/670 EAKE4
670	1090	412	13800	29000	200	400	1600	241/670 EAE4	241/670 ECA/W33	241/670 E1	241/670 EAE4
670	1090	412	13800	29000	200	400	1575	241/670 CK30E4	241/670 ECAK30/W33	241/670 E1.K30	241/670 CK30E4
670	1220	438	15400	30500	220	360	2270	232/670 EAE4	232/670 CA/W33	232/670 E1	232/670 EAE4
670	1220	438	15400	30500	220	360	2205	232/670 EAKE4	232/670 CAK/W33	232/670 E1.K	232/670 EAKE4
710	870	118	2580	7500	340	670	153	238/710 CAME4	238/710 CAMA/W20	238/710 B.MB	238/710 CAME4
710	950	180	5600	12000	340	600	365	239/710 EAE4	239/710 CA/W33	239/710 E1	239/710 EAE4
710	950	180	5600	12000	340	600	355	239/710 EAKE4	239/710 CAK/W33	239/710 E1.K	239/710 EAKE4
710	950	243	6800	15600	300	500	495	249/710 EAE4	249/710 CA/W33	249/710 E1	249/710 EAE4
710	950	243	6800	15600	300	500	485	249/710 CK30E4	249/710 CAK30/W33	249/710 E1.K30	249/710 CK30E4
710	1030	236	8300	16300	320	560	670	230/710 EAE4	230/710 CA/W33	230/710 E1	230/710 EAE4
710	1030	236	8300	16300	320	560	650	230/710 EAKE4	230/710 CAK/W33	230/710 E1.K	230/710 EAKE4
710	1030	315	10600	22800	260	450	895	240/710 EAE4	240/710 ECA/W33	240/710 E1	240/710 EAE4
710	1030	315	10600	22800	260	450	880	240/710 CK30E4	240/710 ECAK30/W33	240/710 E1.K30	240/710 CK30E4
710	1150	345	12200	26000	240	450	1450	231/710 EAE4	231/710 CA/W33	231/710 E1	231/710 EAE4



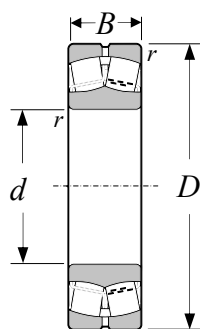
SPHERICAL ROLLER BEARINGS
Cylindrical & Tapered Bore

Table 57
Bore Diameter 710mm - 900mm

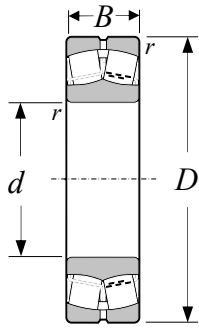
Principal Dimensions			Basic Load Ratings		Speed Ratings		Mass	Designations			
d	D	B	C	C ₀	Ref. Speed	Limiting Speed		Local	SKF	FAG	NSK
mm	mm	mm	kN	kN	r/min	r/min	kg				
710	1150	345	12200	26000	240	450	1405	231/710 EAKE4	231/710 CAK/W33	231/710 E1.K	231/710 EAKE4
710	1150	438	15200	32500	190	380	1900	241/710 EAE4	241/710 ECA/W33	241/710 E1	241/710 EAE4
710	1150	438	15200	32500	190	380	1870	241/710 CK30E4	241/710 ECAK30/W33	241/710 E1.K30	241/710 CK30E4
710	1280	450	17600	34500	200	320	2610	232/710 EAE4	232/710 CA/W33	232/710 E1	232/710 EAE4
710	1280	450	17600	34500	200	320	2535	232/710 EAKE4	232/710 CAK/W33	232/710 E1.K	232/710 EAKE4
750	920	128	2930	8500	320	600	175	238/750 CAMKE4	238/750 CAKMA/W20	238/750 BK.MB	238/750 CAMKE4
750	920	128	2930	8500	320	600	180	238/750 CAME4	238/750 CAMA/W20	238/750 B.MB	238/750 CAME4
750	1000	185	6000	13200	320	560	420	239/750 EAE4	239/750 CA/W33	239/750 E1	239/750 EAE4
750	1000	185	6000	13200	320	560	405	239/750 EAKE4	239/750 CAK/W33	239/750 E1.K	239/750 EAKE4
750	1000	250	7650	18000	280	480	560	249/750 EAE4	249/750 CA/W33	249/750 E1	249/750 EAE4
750	1000	250	7650	18000	280	480	550	249/750 CK30E4	249/750 CAK30/W33	249/750 E1.K30	249/750 CK30E4
750	1090	250	9650	18600	300	530	795	230/750 EAE4	230/750 CA/W33	230/750 E1	230/750 EAE4
750	1090	250	9650	18600	300	530	770	230/750 EAKE4	230/750 CAK/W33	230/750 E1.K	230/750 EAKE4
750	1090	335	11800	25000	260	430	1065	240/750 EAE4	240/750 ECA/W33	240/750 E1	240/750 EAE4
750	1090	335	11800	25000	260	430	1050	240/750 CK30E4	240/750 ECAK30/W33	240/750 E1.K30	240/750 CK30E4
750	1220	365	13800	29000	220	430	1700	231/750 EAE4	231/750 CA/W33	231/750 E1	231/750 EAE4
750	1220	365	13800	29000	220	430	1650	231/750 EAKE4	231/750 CAK/W33	231/750 E1.K	231/750 EAKE4
750	1220	475	17300	37500	180	360	2100	241/750 EAE4	241/750 ECA/W33	241/750 E1	241/750 EAE4
750	1220	475	17300	37500	180	360	2065	241/750 CK30E4	241/750 ECAK30/W33	241/750 E1.K30	241/750 CK30E4
750	1360	475	18700	36500	190	300	3050	232/750 EAE4	232/750 CAF/W33	232/750 E1	232/750 EAE4
750	1360	475	18700	36500	190	300	2960	232/750 EAKE4	232/750 CAK/W33	232/750 E1.K	232/750 EAKE4
800	980	180	4140	12900	300	560	295	248/800 CK30E4	248/800 CAK30MA/W20	248/800 BK30.M	248/800 CK30E4
800	980	180	4140	12900	300	560	300	248/800 CAME4	248/800 CAMA/W20	248/800 B.MB	248/800 CAME4
800	1060	195	6400	14300	300	530	470	239/800 EAE4	239/800 CA/W33	239/800 E1	239/800 EAE4
800	1060	195	6400	14300	300	530	455	239/800 EAKE4	239/800 CAK/W33	239/800 E1.K	239/800 EAKE4
800	1060	258	8000	19300	260	430	640	249/800 EAE4	249/800 CA/W33	249/800 E1	249/800 EAE4
800	1060	258	8000	19300	260	430	630	249/800 CK30E4	249/800 CAK30/W33	249/800 E1.K30	249/800 CK30E4
800	1150	258	10000	20000	280	480	895	230/800 EAE4	230/800 CA/W33	230/800 E1	230/800 EAE4
800	1150	258	10000	20000	280	480	865	230/800 EAKE4	230/800 CAK/W33	230/800 E1.K	230/800 EAKE4
800	1150	345	12900	28500	220	400	1200	240/800 EAE4	240/800 ECA/W33	240/800 E1	240/800 EAE4
800	1150	345	12900	28500	220	400	1180	240/800 CK30E4	240/800 ECAK30/W33	240/800 E1.K30	240/800 CK30E4
800	1280	375	14800	31500	200	400	1920	231/800 EAE4	231/800 CA/W33	231/800 E1	231/800 EAE4
800	1280	375	14800	31500	200	400	1860	231/800 EAKE4	231/800 CAK/W33	231/800 E1.K	231/800 EAKE4
800	1280	475	18400	40500	170	320	2300	241/800 EAE4	241/800 ECA/W33	241/800 E1	241/800 EAE4
800	1280	475	18400	40500	170	320	2265	241/800 CK30E4	241/800 ECAK30/W33	241/800 E1.K30	241/800 CK30E4
850	1030	136	3340	10000	260	530	230	238/850 CAMKE4	238/850 CAKMA/W20	238/850 BK.MB	238/850 CAMKE4
850	1030	136	3340	10000	260	530	240	238/850 CAME4	238/850 CAMA/W20	238/850 B.MB	238/850 CAME4
850	1120	200	6950	15600	260	480	560	239/850 EAE4	239/850 CA/W33	239/850 E1	239/850 EAE4
850	1120	200	6950	15600	260	480	540	239/850 EAKE4	239/850 CAK/W33	239/850 E1.K	239/850 EAKE4
850	1120	272	9300	22800	220	400	740	249/850 EAE4	249/850 CA/W33	249/850 E1	249/850 EAE4
850	1120	272	9300	22800	220	400	725	249/850 CK30E4	249/850 CAK30/W33	249/850 E1.K30	249/850 CK30E4
850	1220	272	9370	21600	240	450	1050	230/850 EAE4	230/850 CA/W33	230/850 E1	230/850 EAE4
850	1220	272	9370	21600	240	450	1015	230/850 EAKE4	230/850 CAK/W33	230/850 E1.K	230/850 EAKE4
850	1220	365	12700	31500	200	360	1410	240/850 EAE4	240/850 ECA/W33	240/850 E1	240/850 EAE4
850	1220	365	12700	31500	200	360	1385	240/850 CK30E4	240/850 ECAK30/W33	240/850 E1.K30	240/850 CK30E4
850	1360	400	16100	34500	180	360	2200	231/850 EAE4	231/850 CA/W33	231/850 E1	231/850 EAE4
850	1360	400	16100	34500	180	360	2130	231/850 EAKE4	231/850 CAK/W33	231/850 E1.K	231/850 EAKE4
850	1360	500	20200	45000	150	300	2710	241/850 EAE4	241/850 ECAF/W33	241/850 E1	241/850 EAE4
850	1360	500	20200	45000	150	300	2665	241/850 CK30E4	241/850 ECAK30F/W33	241/850 E1.K30	241/850 CK30E4
900	1090	190	4660	15300	240	480	365	248/900 CK30E4	248/900 CAK30MA/W20	248/900 BK30.M	248/900 CK30E4

SPHERICAL ROLLER BEARINGS
Cylindrical & Tapered Bore

Table 58
Bore Diameter 900mm - 1180mm



Principal Dimensions			Basic Load Ratings		Speed Ratings		Mass	Designations			
d	D	B	C	C ₀	Ref. Speed	Limiting Speed		Local	SKF	FAG	NSK
mm	mm	mm	kN	kN	r/min	r/min	kg				
900	1090	190	4660	15300	240	480	370	248/900 CAME4	248/900 CAMA/W20	248/900 B.MB	248/900 CAME4
900	1180	206	7500	17000	240	450	605	239/900 EAE4	239/900 CA/W33	239/900 E1	239/900 EAE4
900	1180	206	7500	17000	240	450	585	239/900 EAKE4	239/900 CAK/W33	239/900 E1.K	239/900 EAKE4
900	1280	280	10100	23200	220	400	1200	230/900 EAE4	230/900 CA/W33	230/900 E1	230/900 EAE4
900	1280	280	10100	23200	220	400	1165	230/900 EAKE4	230/900 CAK/W33	230/900 E1.K	230/900 EAKE4
900	1280	375	13600	34500	190	340	1570	240/900 EAE4	240/900 ECA/W33	240/900 E1	240/900 EAE4
900	1280	375	13600	34500	190	340	1545	240/900 CK30E4	240/900 ECAK30/W33	240/900 E1.K30	240/900 CK30E4
900	1420	515	21400	49000	140	280	3350	241/900 EAE4	241/900 ECAF/W33	241/900 E1	241/900 EAE4
900	1420	515	21400	49000	140	280	3300	241/900 CK30E4	241/900 ECAK30F/W33	241/900 E1.K30	241/900 CK30E4
950	1250	224	7250	19600	220	430	755	239/950 EAE4	239/950 CA/W33	239/950 E1	239/950 EAE4
950	1250	224	7250	19600	220	430	730	239/950 EAKE4	239/950 CAK/W33	239/950 E1.K	239/950 EAKE4
950	1250	300	9200	26000	180	340	1015	249/950 EAE4	249/950 CA/W33	249/950 E1	249/950 EAE4
950	1250	300	9200	26000	180	340	995	249/950 CK30E4	249/950 CAK30/W33	249/950 E1.K30	249/950 CK30E4
950	1360	300	12000	28500	200	380	1450	230/950 EAE4	230/950 CA/W33	230/950 E1	230/950 EAE4
950	1360	300	12000	28500	200	380	1405	230/950 EAKE4	230/950 CAK/W33	230/950 E1.K	230/950 EAKE4
950	1360	412	14800	39000	170	300	1990	240/950 EAE4	240/950 CAF/W33	240/950 E1	240/950 EAE4
950	1360	412	14800	39000	170	300	1955	240/950 CK30E4	240/950 CAK30F/W33	240/950 E1.K30	240/950 CK30E4
950	1500	545	23900	55000	130	260	3535	241/950 EAE4	241/950 ECAF/W33	241/950 E1	241/950 EAE4
950	1500	545	23900	55000	130	260	3475	241/950 CK30E4	241/950 ECAK30F/W33	241/950 E1.K30	241/950 CK30E4
1000	1220	165	4660	14300	220	400	395	238/1000 CAMKE4	238/1000 CAKMA/W20	238/1000 BK.MB	238/1000 CAMKE4
1000	1220	165	4660	14300	220	400	410	238/1000 CAME4	238/1000 CAMA/W20	238/1000 B.MB	238/1000 CAME4
1000	1320	315	10400	29000	170	320	1200	249/1000 EAE4	249/1000 CA/W33	249/1000 E1	249/1000 EAE4
1000	1320	315	10400	29000	170	320	1180	249/1000 CK30E4	249/1000 CAK30/W33	249/1000 E1.K30	249/1000 CK30E4
1000	1420	308	12700	30500	180	360	1600	230/1000 EAE4	230/1000 CAF/W33	230/1000 E1	230/1000 EAE4
1000	1420	308	12700	30500	180	360	1550	230/1000 EAKE4	230/1000 CAKF/W33	230/1000 E1.K	230/1000 EAKE4
1000	1420	412	15400	40500	160	280	2140	240/1000 EAE4	240/1000 CAF/W33	240/1000 E1	240/1000 EAE4
1000	1420	412	15400	40500	160	280	2105	240/1000 CK30E4	240/1000 CAK30F/W33	240/1000 E1.K30	240/1000 CK30E4
1000	1580	462	21400	48000	140	280	3500	231/1000 EAE4	231/1000 CAF/W33	231/1000 E1	231/1000 EAE4
1000	1580	462	21400	48000	140	280	3390	231/1000 EAKE4	231/1000 CAKF/W33	231/1000 E1.K	231/1000 EAKE4
1000	1580	580	26700	62000	120	240	4300	241/1000 EAE4	241/1000 ECAF/W33	241/1000 E1	241/1000 EAE4
1000	1580	580	26700	62000	120	240	4230	241/1000 CK30E4	241/1000 ECAK30F/W33	241/1000 E1.K30	241/1000 CK30E4
1060	1280	165	4770	15000	200	380	420	238/1060 CAMKE4	238/1060 CAKMA/W20	238/1060 BK.MB	238/1060 CAMKE4
1060	1280	165	4770	15000	200	380	435	238/1060 CAME4	238/1060 CAMA/W20	238/1060 B.MB	238/1060 CAME4
1060	1280	218	6100	20000	200	380	560	248/1060 CK30E4	248/1060 CAK30MA/W20	248/1060 BK30.M	248/1060 CK30E4
1060	1280	218	6100	20000	200	380	570	248/1060 CAME4	248/1060 CAMA/W20	248/1060 B.MB	248/1060 CAME4
1060	1400	250	9550	26000	180	360	1100	239/1060 EAE4	239/1060 CAF/W33	239/1060 E1	239/1060 EAE4
1060	1400	250	9550	26000	180	360	1065	239/1060 EAKE4	239/1060 CAKF/W33	239/1060 E1.K	239/1060 EAKE4
1060	1400	335	11500	32500	160	280	1400	249/1060 EAE4	249/1060 CAF/W33	249/1060 E1	249/1060 EAE4
1060	1400	335	11500	32500	160	280	1375	249/1060 CK30E4	249/1060 CAK30F/W33	249/1060 E1.K30	249/1060 CK30E4
1060	1500	325	13800	34000	170	320	2250	230/1060 EAE4	230/1060 CAF/W33	230/1060 E1	230/1060 EAE4
1060	1500	325	13800	34000	170	320	2190	230/1060 EAKE4	230/1060 CAKF/W33	230/1060 E1.K	230/1060 EAKE4
1060	1500	438	17300	45500	150	260	2515	240/1060 EAE4	240/1060 CAF/W33	240/1060 E1	240/1060 EAE4
1060	1500	438	17300	45500	150	260	2475	240/1060 CK30E4	240/1060 CAK30F/W33	240/1060 E1.K30	240/1060 CK30E4
1120	1360	243	7250	24000	180	340	735	248/1120 EAE4	248/1120 CAFA/W20	248/1120 E1	248/1120 EAE4
1120	1360	243	7250	24000	180	340	720	248/1120 CK30E4	248/1120 CAK30FA/W20	248/1120 E1.K30	248/1120 CK30E4
1120	1460	335	11700	34500	140	260	1500	249/1120 EAE4	249/1120 CAF/W33	249/1120 E1	249/1120 EAE4
1120	1460	335	11700	34500	140	260	1475	249/1120 CK30E4	249/1120 CAK30F/W33	249/1120 E1.K30	249/1120 CK30E4
1120	1580	462	18700	50000	130	240	2925	240/1120 EAE4	240/1120 CAF/W33	240/1120 E1	240/1120 EAE4
1120	1580	462	18700	50000	130	240	2825	240/1120 CK30E4	240/1120 CAK30F/W33	240/1120 E1.K30	240/1120 CK30E4
1180	1420	180	5870	18600	170	320	575	238/1180 EAE4	238/1180 CAFA/W20	238/1180 E1	238/1180 EAE4



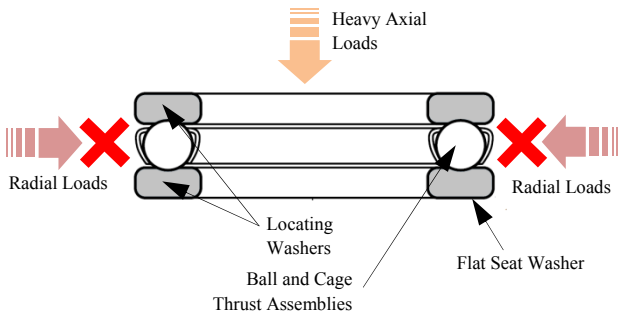
SPHERICAL ROLLER BEARINGS
Cylindrical & Tapered Bore

Table 59
Bore Diameter 1180mm - 1800mm

Principal Dimensions			Basic Load Ratings		Speed Ratings		Mass	Designations			
d	D	B	Dynamic	Static	Ref. Speed	Limiting Speed					
mm			C	C ₀	r/min		kg	Local	SKF	FAG	NSK
1180	1420	180	5870	18600	170	320	555	238/1180 EAKE4	238/1180 CAKFA/W20	238/1180 E1.K	238/1180 EAKE4
1180	1420	243	7710	27000	170	320	770	248/1180 EAE4	248/1180 CAFA/W20	248/1180 E1	248/1180 EAE4
1180	1420	243	7710	27000	170	320	755	248/1180 CK30E4	248/1180 CAK30FA/W20	248/1180 E1.K30	248/1180 CK30E4
1180	1540	272	11100	31000	150	300	1400	239/1180 EAE4	239/1180 CAF/W33	239/1180 E1	239/1180 EAE4
1180	1540	272	11100	31000	150	300	1355	239/1180 EAKE4	239/1180 CAKF/W33	239/1180 E1.K	239/1180 EAKE4
1180	1540	355	13600	40500	130	240	1800	249/1180 EAE4	249/1180 CAF/W33	249/1180 E1	249/1180 EAE4
1180	1540	355	13600	40500	130	240	1770	249/1180 CK30E4	249/1180 CAK30F/W33	249/1180 E1.K30	249/1180 CK30E4
1250	1750	375	17900	45000	130	240	2840	230/1250 EAE4	230/1250 CAF/W33	230/1250 E1	230/1250 EAE4
1250	1750	375	17900	45000	130	240	2750	230/1250 EAKE4	230/1250 CAKF/W33	230/1250 E1.K	230/1250 EAKE4
1320	1600	280	9780	33500	140	260	1160	248/1320 EAE4	248/1320 CAFA/W20	248/1320 E1	248/1320 EAE4
1320	1600	280	9780	33500	140	260	1140	248/1320 CK30E4	248/1320 CAK30FA/W20	248/1320 E1.K30	248/1320 CK30E4
1320	1720	400	16100	49000	110	200	2500	249/1320 EAE4	249/1320 CAF/W33	249/1320 E1	249/1320 EAE4
1320	1720	400	16100	49000	110	200	2455	249/1320 CK30E4	249/1320 CAK30F/W33	249/1320 E1.K30	249/1320 CK30E4
1500	1820	315	12700	45000	110	200	1710	248/1500 EAE4	248/1500 CAFA/W20	248/1500 E1	248/1500 EAE4
1500	1820	315	12700	45000	110	200	1680	248/1500 CK30E4	248/1500 CAK30FA/W20	248/1500 E1.K30	248/1500 CK30E4
1800	2180	375	17600	63000	75	130	2900	248/1800 EAE4	248/1800 CAFA/W20	248/1800 E1	248/1800 EAE4
1800	2180	375	17600	63000	75	130	2850	248/1800 CK30E4	248/1800 CAK30FA/W20	248/1800 E1.K30	248/1800 CK30E4

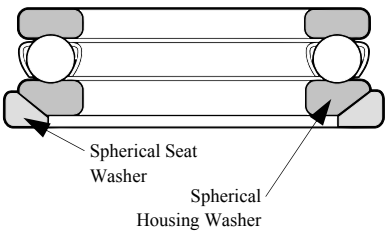
THRUST BALL BEARINGS

Thrust ball bearings are a combination of shaft locating washer, housing locating washer, and ball and cage thrust assemblies. Thrust ball bearings are designed to specifically carry axial loads, but must not be subjected to any radial loads. They are available in single direction and double directions.



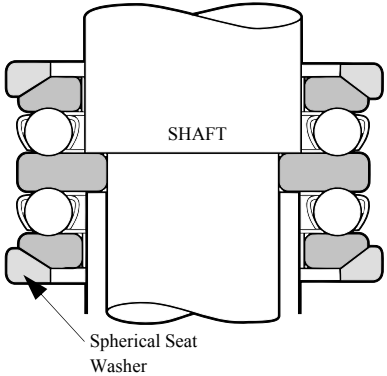
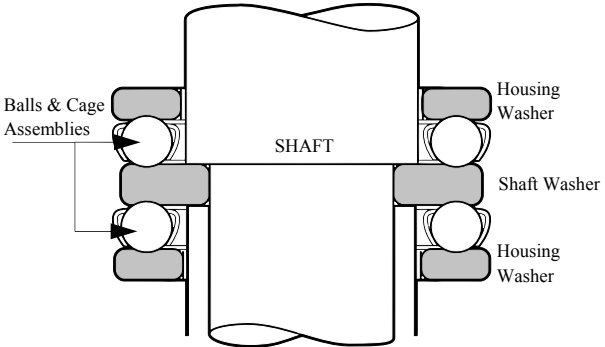
Single Direction Thrust Ball Bearings

Single direction thrust ball bearings consist of one shaft washer, one housing washer, and one set of roller and cage assemblies. It is designed to be separable, the washer and the ball and cage assemblies can be mounted separately, so that the mounting can be done easily. Some smaller sizes of the bearings are available with options of flat washer or spherical housing washer. Spherical seat washer can be applied together with spherical housing washer in order to compensate shaft deflection or misalignment.



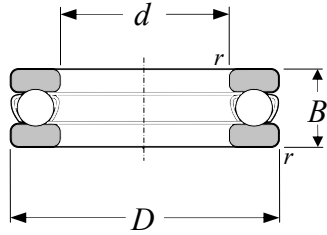
Double Directions Thrust Ball Bearings

Double direction thrust ball bearings consist of one shaft washer, two housing washer and two sets of ball and cage assemblies. Similarly to single direction bearings, the bearings are separable and mounting can be done easily. Again, some smaller sizes of the bearings are available with options of flat washer or spherical housing washer. Spherical seat washer can be applied together with spherical housing washer in order to compensate shaft deflection or misalignment. Double direction thrust ball bearings have capability to carry axial loads acting in both directions. But they must not be subject to any radial loads.



THRUST BALL BEARINGS
Single Direction

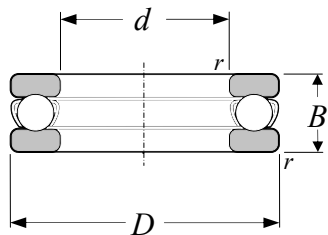
Table 60
Bore Diameter 10mm - 70mm



Principal Dimensions			Basic Load Ratings		Speed Ratings		Mass	Designations			
d	D	B	Dynamic	Static	Ref. Speed	Limiting Speed					
mm			C	C ₀	r/min		kg	Local	SKF	FAG	NSK
10	24	9	9.95	15.3	9500	13000	0.02	51100	51100	51100	51100
10	26	11	12.7	18.6	8000	11000	0.03	51200	51200	51200	51200
12	26	9	10.4	16.6	9000	13000	0.022	51101	51101	51101	51101
12	28	11	13.3	20.8	8000	11000	0.034	51201	51201	51201	51201
15	28	9	10.6	18.3	8500	12000	0.024	51102	51102	51102	51102
15	32	12	16.5	27	7000	10000	0.045	51202	51202	51202	51202
17	30	9	11.4	21.2	8500	12000	0.026	51103	51103	51103	51103
17	35	12	17.2	30	6700	9500	0.053	51203	51203	51203	51203
20	35	10	15.1	29	7500	10000	0.039	51104	51104	51104	51104
20	40	14	22.5	40.5	6000	8000	0.082	51204	51204	51204	51204
25	42	11	18.2	39	6300	9000	0.06	51105	51105	51105	51105
25	47	15	27.6	55	5300	7500	0.11	51205	51205	51205	51205
25	52	18	34.5	60	4500	6300	0.12	51305	51305	51305	51305
25	60	24	55.3	96.5	3600	5000	0.34	51405	51405	51405	51405
30	47	11	19	43	6000	8500	0.069	51106	51106	51106	51106
30	52	16	25.5	51	4800	6700	0.13	51206	51206	51206	51206
30	60	21	37.7	71	3800	5300	0.26	51306	51306	51306	51306
30	70	28	72.8	137	3000	4300	0.52	51406	51406	51406	51406
35	52	12	19.9	51	5600	7500	0.08	51107	51107	51107	51107
35	62	18	35.1	73.5	4000	5600	0.22	51207	51207	51207	51207
35	68	24	49.4	96.5	3200	4500	0.39	51307	51307	51307	51307
35	80	32	87.1	170	2600	3800	0.74	51407	51407	51407	51407
40	60	13	26	63	5000	7000	0.12	51108	51108	51108	51108
40	68	19	46.8	106	3800	5300	0.27	51208	51208	51208	51208
40	78	26	61.8	122	3000	4300	0.53	51308	51308	51308	51308
40	90	36	112	224	2400	3400	1.1	51408	51408	51408	51408
45	65	14	26.5	69.5	4500	6300	0.15	51109	51109	51109	51109
45	73	20	39	86.5	3600	5000	0.32	51209	51209	51209	51209
45	85	28	76.1	153	2800	4000	0.66	51309	51309	51309	51309
45	100	39	130	265	2200	3000	1.42	51409	51409	51409	51409
50	70	14	27	75	4300	6300	0.16	51110	51110	51110	51110
50	78	22	49.4	116	3400	4500	0.37	51210	51210	51210	51210
50	95	31	88.4	190	2600	3600	0.94	51310	51310	51310	51310
50	110	43	159	340	2000	2800	2	51410	51410	51410	51410
55	78	16	30.7	85	3800	5300	0.24	51111	51111	51111	51111
55	90	25	61.8	146	2800	4000	0.59	51211	51211	51211	51211
55	105	35	104	224	2200	3200	1.3	51311	51311	51311	51311
55	120	48	178	390	1800	2400	2.55	51411	51411	51411	51411
60	85	17	41.6	122	3600	5000	0.3	51112	51112	51112	51112
60	95	26	62.4	150	2800	3800	0.65	51212	51212	51212	51212
60	110	35	101	224	2200	3000	1.35	51312	51312	51312	51312
60	130	51	199	430	1600	2200	3.1	51412 MP	51412 M	51412 MP	51412 M
65	90	18	37.7	108	3400	4800	0.33	51113	51113	51113	51113
65	100	27	63.7	163	2600	3600	0.78	51213	51213	51213	51213
65	115	36	106	240	2000	3000	1.5	51313	51313	51313	51313
65	140	56	216	490	1500	2200	4	51413 MP	51413 M	51413 MP	51413 M
70	95	18	40.3	120	3400	4500	0.35	51114	51114	51114	51114
70	105	27	65	173	2600	3600	0.79	51214	51214	51214	51214
70	125	40	135	320	1900	2600	2	51314	51314	51314	51314
70	150	60	234	550	1400	2000	5	51414 MP	51414 M	51414 MP	51414 M

THRUST BALL BEARINGS
Single Direction

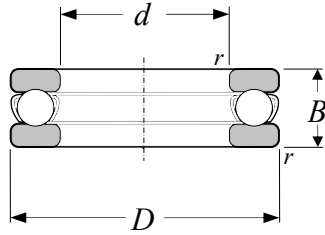
Table 61
Bore Diameter 75mm - 180mm



Principal Dimensions			Basic Load Ratings		Speed Ratings		Mass	Designations			
d	D	B	Dynamic C	Static C ₀	Ref. Speed	Limiting Speed		Local	SKF	FAG	NSK
mm			kN		r/min		kg				
75	100	19	44.2	146	3200	4300	0.4	51115	51115	51115	51115
75	110	27	67.6	183	2400	3400	0.83	51215	51215	51215	51215
75	135	44	163	390	1700	2400	2.6	51315	51315	51315	51315
75	160	65	251	610	1300	1800	6.75	51415 MP	51415 M	51415 MP	51415 M
80	105	19	44.9	153	3000	4300	0.42	51116	51116	51116	51116
80	115	28	76.1	208	2400	3400	0.91	51216	51216	51216	51216
80	140	44	159	390	1700	2400	2.7	51316	51316	51316	51316
80	170	68	270	670	1200	1700	7.95	51416 MP	51416 M	51416 MP	51416 M
85	110	19	46.2	163	3000	4300	0.44	51117	51117	51117	51117
85	125	31	97.5	275	2200	3000	1.2	51217	51217	51217	51217
85	150	49	190	465	1600	2200	3.55	51317	51317	51317	51317
85	180	72	286	750	1200	1600	9.45	51417 MP	51417 M	51417 MP	51417 M
90	120	22	59.2	208	2600	3800	0.65	51118	51118	51118	51118
90	135	35	119	325	2000	2800	1.7	51218	51218	51218	51218
90	155	50	195	500	1500	2200	3.8	51318	51318	51318	51318
90	190	77	307	815	1100	1500	11	51418 MP	51418 M	51418 MP	51418 M
100	135	25	85.2	290	2400	3200	0.97	51120	51120	51120	51120
100	135	25	79.3	260	2400	3200	0.97	51120 MP	51120 M	51120 MP	51120 M
100	150	38	124	345	1800	2400	2.2	51220	51220	51220	51220
100	170	55	229	610	1400	1900	4.95	51320	51320	51320	51320
100	210	85	371	1060	950	1400	15	51420 MP	51420 M	51420 MP	51420 M
110	145	25	87.1	315	2200	3200	1.05	51122	51122	51122	51122
110	160	38	130	390	1700	2400	2.4	51222	51222	51222	51222
110	190	63	281	815	1200	1700	7.85	51322 MP	51322 M	51322 MP	51322 M
110	230	95	410	1220	900	1300	20	51422 MP	51422 M	51422 MP	51422 M
120	155	25	88.4	335	2200	3000	1.15	51124	51124	51124	51124
120	170	39	140	440	1600	2200	2.65	51224	51224	51224	51224
120	210	70	325	980	1100	1500	11	51324 MP	51324 M	51324 MP	51324 M
120	250	102	520	1730	800	1100	29.5	51424 MP	51424 M	51424 MP	51424 M
130	170	30	111	425	1900	2600	1.85	51126	51126	51126	51126
130	190	45	186	585	1400	2000	4	51226	51226	51226	51226
130	225	75	358	1140	1000	2400	13	51326 MP	51326 M	51326 MP	51326 M
130	270	110	520	1730	750	1000	32	51426 MP	51426 M	51426 MP	51426 M
140	180	31	111	440	1800	2600	2.05	51128	51128	51128	51128
140	200	46	190	620	1400	1900	4.35	51228	51228	51228	51228
140	240	80	397	1320	950	1300	15.5	51328 MP	51328 M	51328 MP	51328 M
140	280	112	520	1730	700	1000	34.5	51428 MP	51428 M	51428 MP	51428 M
150	190	31	111	440	1700	2400	2.2	51130 MP	51130 M	51130 MP	51130 M
150	215	50	238	800	1300	1800	6.1	51230 MP	51230 M	51230 MP	51230 M
150	250	80	410	1400	900	1300	16.5	51330 MP	51330 M	51330 MP	51330 M
150	300	120	559	1960	670	950	42.5	51430 MP	51430 M	51430 MP	51430 M
160	200	31	112	465	1700	2400	2.35	51132 MP	51132 M	51132 MP	51132 M
160	225	51	242	850	1200	1700	6.55	51232 MP	51232 M	51232 MP	51232 M
160	270	87	449	1660	850	1200	21	51332 MP	51332 M	51332 MP	51332 M
170	215	34	133	540	1600	2200	3.3	51134 MP	51134 M	51134 MP	51134 M
170	240	55	286	1020	1100	1800	8.15	51234 MP	51234 M	51234 MP	51234 M
170	280	87	468	1760	800	1100	22	51334 MP	51334 M	51334 MP	51334 M
180	225	34	135	570	1500	2200	3.5	51136 MP	51136 M	51136 MP	51136 M
180	250	56	296	1080	1100	1500	8.6	51236 MP	51236 M	51236 MP	51236 M
180	300	95	520	2000	750	1100	28.5	51336 MP	51336 M	51336 MP	51336 M

THRUST BALL BEARINGS
Single Direction

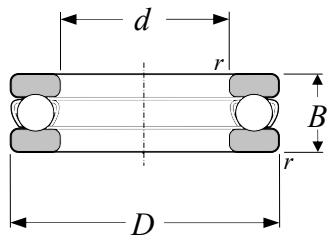
Table 62
Bore Diameter 190mm - 460mm



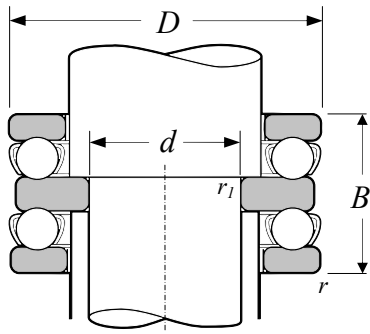
Principal Dimensions			Basic Load Ratings		Speed Ratings		Mass	Designations			
d	D	B	Dynamic	Static	Ref. Speed	Limiting Speed		Local	SKF	FAG	NSK
mm			C	C ₀	r/min						
190	240	37	172	710	1400	2000	4.05	51138 MP	51138 M	51138 MP	51138 M
190	270	62	332	1270	1000	1400	12	51238 MP	51238 M	51238 MP	51238 M
190	320	105	592	2400	700	950	36.5	51338 MP	51338 M	51338 MP	51338 M
200	250	37	168	710	1400	1900	4.25	51140 MP	51140 M	51140 MP	51140 M
200	280	62	338	1320	1000	1400	12	51240 MP	51240 M	51240 MP	51240 M
200	340	110	624	2600	630	900	44.5	51340 MP	51340 M	51340 MP	51340 M
220	270	37	178	800	1300	1900	4.6	51144 MP	51144 M	51144 MP	51144 M
220	300	63	351	1460	950	1300	13	51244 MP	51244 M	51244 MP	51244 M
240	300	45	234	1040	1100	1600	7.55	51148 MP	51148 M	51148 MP	51148 M
240	340	78	462	2000	800	1100	23	51248 MP	51248 M	51248 MP	51248 M
260	320	45	238	1100	1100	1500	8.1	51152 MP	51152 M	51152 MP	51152 M
260	360	79	475	2160	750	1100	25	51252 MP	51252 M	51252 MP	51252 M
280	350	53	319	1460	950	1300	12	51156 MP	51156 M	51156 MP	51156 M
280	380	80	494	2320	750	1000	26.5	51256 MP	51256 M	51256 MP	51256 M
300	340	30	112	640	1300	1800	4.1	51060 MP	51060 M	51060 MP	51060 M
300	380	48	238	1160	950	1300	12.5	59160 MP	59160 M	59160 MP	59160 M
300	380	62	364	1760	800	1100	17.5	51160 MP	51160 M	51160 MP	51160 M
300	420	95	605	3000	600	850	42	51260 MP	51260 M	51260 MP	51260 M
320	360	30	114	735	1300	1800	4.3	51064 MP	51064 M	51064 MP	51064 M
320	400	48	242	1320	950	1300	13.5	59164 MP	59164 M	59164 MP	59164 M
320	400	63	371	1860	800	1100	19	51164 MP	51164 M	51164 MP	51164 M
320	440	95	572	3000	600	800	45.5	51264 MP	51264 F	51264 MP	51264 M
340	380	30	114	695	1200	1700	4.6	51068 MP	51068 M	51068 MP	51068 M
340	420	48	242	1250	900	1300	14	59168 MP	59168 M	59168 MP	59168 M
340	420	64	377	1960	750	1100	20.5	51168 MP	51168 F	51168 MP	51168 M
340	460	96	605	3200	530	750	48.5	51268 MP	51268 F	51268 MP	51268 M
340	540	160	1040	5850	400	560	135	51368 MP	51368 F	51368 MP	51368 M
360	400	30	119	815	1200	1700	4.85	51072 MP	51072 F	51072 MP	51072 M
360	440	48	255	1500	900	1200	15	59172 MP	59172 F	59172 MP	59172 M
360	440	65	390	2080	750	1000	22	51172 MP	51172 F	51172 MP	51172 M
360	500	110	741	4150	500	700	70	51272 MP	51272 F	51272 MP	51272 M
380	420	30	121	800	1200	1600	5.1	51076 MP	51076 F	51076 MP	51076 M
380	460	48	255	1530	850	1200	15	59176 MP	59176 F	59176 MP	59176 M
380	460	65	397	2200	750	1000	23	51176 MP	51176 F	51176 MP	51176 M
380	520	112	728	4150	500	700	73	51276 MP	51276 F	51276 MP	51276 M
400	440	30	124	830	1100	1600	5.35	51080 MP	51080 F	51080 MP	51080 M
400	480	48	260	1630	850	1200	16.5	59180 MP	59180 F	59180 MP	59180 M
400	480	65	403	2280	700	1000	24	51180 MP	51180 F	51180 MP	51180 M
400	540	112	761	4500	500	700	78.5	51280 MP	51280 F	51280 MP	51280 M
420	460	30	125	880	1100	1600	5.6	51084 MP	51084 F	51084 MP	51084 M
420	500	48	265	1700	850	1200	17	59184 MP	59184 F	59184 MP	59184 M
420	500	65	410	2400	700	1000	25.5	51184 MP	51184 F	51184 MP	51184 M
420	580	130	884	5500	430	600	110	51284 MP	51284 F	51284 MP	51284 M
440	480	30	127	915	1100	1500	5.85	51088 MP	51088 F	51088 MP	51088 M
440	540	60	238	1500	700	1000	28	59188 MP	59188 F	59188 MP	59188 M
440	540	80	527	3250	600	850	42	51188 MP	51188 F	51188 MP	51188 M
440	600	130	904	5700	430	600	115	51288 MP	51288 F	51288 MP	51288 M
460	500	30	130	950	1100	1500	6.4	51092 MP	51092 F	51092 MP	51092 M
460	560	60	242	1430	700	950	29.5	59192 MP	59192 F	59192 MP	59192 M
460	560	80	527	3250	600	800	43.5	51192 MP	51192 F	51192 MP	51192 M

THRUST BALL BEARINGS
Single Direction

Table 63
Bore Diameter 460mm - 1400mm



Principal Dimensions			Basic Load Ratings		Speed Ratings		Mass	Designations			
d	D	B	Dynamic	Static	Ref. Speed	Limiting Speed		Local	SKF	FAG	NSK
mm			C	C ₀	r/min		kg				
460	620	130	923	5850	430	600	120	51292 MP	51292 F	51292 MP	51292 M
480	520	30	133	1000	1000	1500	6.5	51096 MP	51096 F	51096 MP	51096 M
480	580	60	242	1460	670	950	30.5	59196 MP	59196 F	59196 MP	59196 M
480	580	80	540	3550	560	800	45.5	51196 MP	51196 F	51196 MP	51196 M
480	650	135	995	6550	400	560	130	51296 MP	51296 F	51296 MP	51296 M
500	540	30	133	1120	1000	1400	6.55	510/500 MP	510/500 F	510/500 MP	510/500 M
500	600	60	247	1660	670	950	32	591/500 MP	591/500 F	591/500 MP	591/500 M
500	600	80	553	3600	560	800	47	511/500 MP	511/500 F	511/500 MP	511/500 M
500	670	135	1010	6800	380	530	135	512/500 MP	512/500 F	512/500 MP	512/500 M
530	580	38	203	1600	850	1200	11	510/530 MP	510/530 F	510/530 MP	510/530 M
530	640	67	468	3150	600	850	43.5	591/530 MP	591/530 F	591/530 MP	591/530 M
530	640	85	650	4400	530	750	58.5	511/530 MP	511/530 F	511/530 MP	511/530 M
560	610	38	203	1660	850	1200	11.5	510/560 MP	510/560 F	510/560 MP	510/560 M
560	670	67	468	3250	600	800	45.5	591/560 MP	591/560 F	591/560 MP	591/560 M
560	670	85	650	4650	500	700	61	511/560 MP	511/560 F	511/560 MP	511/560 M
600	650	38	212	1800	800	1100	12	510/600 MP	510/600 F	510/600 MP	510/600 M
600	710	67	475	3400	560	800	48	591/600 MP	591/600 F	591/600 MP	591/600 M
600	710	85	663	4800	500	700	65	511/600 MP	511/600 F	511/600 MP	511/600 M
630	680	38	221	1930	800	1100	12.5	510/630 MP	510/630 F	510/630 MP	510/630 M
630	750	73	540	4000	530	750	62.5	591/630 MP	591/630 F	591/630 MP	591/630 M
630	750	95	728	5400	450	630	84	511/630 MP	511/630 F	511/630 MP	511/630 M
670	730	45	286	2400	700	950	21	510/670 MP	510/670 F	510/670 MP	510/670 M
670	800	78	540	4150	480	670	74	591/670 MP	591/670 F	591/670 MP	591/670 M
670	800	105	852	6700	400	560	105	511/670 MP	511/670 F	511/670 MP	511/670 M
710	780	53	358	2850	600	850	28	510/710 MP	510/710 F	510/710 MP	510/710 M
710	850	85	676	5400	450	630	88.5	591/710 MP	591/710 JR	591/710 MP	591/710 M
710	850	112	936	7650	380	530	130	511/710 MP	511/710 F	511/710 MP	511/710 M
750	820	53	364	3050	600	850	30	510/750 MP	510/750 F	510/750 MP	510/750 M
750	900	90	741	6400	400	600	105	591/750 MP	591/750 F	591/750 MP	591/750 M
750	900	120	1010	8650	340	480	155	511/750 MP	511/750 M	511/750 MP	511/750 M
800	870	53	371	3200	560	800	32.5	510/800 MP	510/800 F	510/800 MP	510/800 M
800	950	90	761	6550	400	560	110	591/800 MP	591/800 M	591/800 MP	591/800 M
800	950	120	1010	9000	340	480	155	511/800 MP	511/800 F	511/800 MP	511/800 M
850	920	53	377	3450	560	800	34.5	510/850 MP	510/850 M	510/850 MP	510/850 M
850	1000	90	761	6800	380	560	115	591/850 MP	591/850 M	591/850 MP	591/850 M
850	1000	120	1060	9500	320	450	165	511/850 MP	511/850 F	511/850 MP	511/850 M
900	980	63	527	4900	480	670	49	510/900 MP	510/900 M	510/900 MP	510/900 M
900	1060	95	630	7650	360	500	140	591/900 MP	591/900 M	591/900 MP	591/900 M
900	1060	130	1140	10800	300	430	205	511/900 MP	511/900 F	511/900 MP	511/900 M
950	1080	63	540	5100	480	670	52	510/950 MP	510/950 M	510/950 MP	510/950 M
950	1120	103	852	8150	340	480	170	591/950 MP	591/950 M	591/950 MP	591/950 M
950	1120	135	1330	12000	280	400	235	511/950 MP	511/950 F	511/950 MP	511/950 M
1000	1090	70	572	5500	430	600	68.5	510/1000 MP	510/1000 M	510/1000 MP	510/1000 M
1000	1180	109	923	9150	320	430	210	591/1000 MP	591/1000 M	591/1000 MP	591/1000 M
1000	1180	140	1330	13200	260	380	275	511/1000 MP	511/1000 F	511/1000 MP	511/1000 M
1060	1150	70	752	5850	430	600	72.5	510/1060 MP	510/1060 M	510/1060 MP	510/1060 M
1060	1250	115	1010	10400	300	400	240	591/1060 MP	591/1060 JR	591/1060 MP	591/1060 M
1060	1250	150	1430	15000	240	340	330	511/1060 MP	511/1060 M	511/1060 MP	511/1060 M
1120	1320	160	1530	16300	220	320	395	511/1120 MP	511/1120 F	511/1120 MP	511/1120 M
1180	1400	175	1780	20000	200	280	495	511/1180 MP	511/1180 F	511/1180 MP	511/1180 M
1400	1630	180	1900	23600	180	260	665	511/1400 MP	511/1400 JR	511/1400 MP	511/1400 M



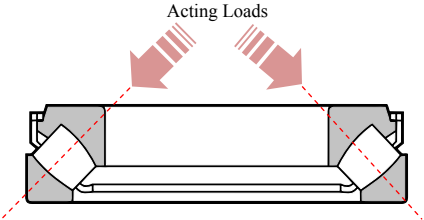
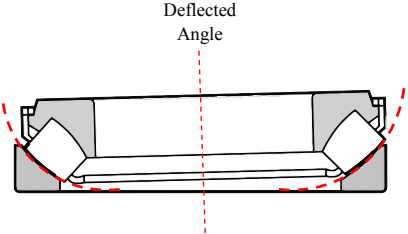
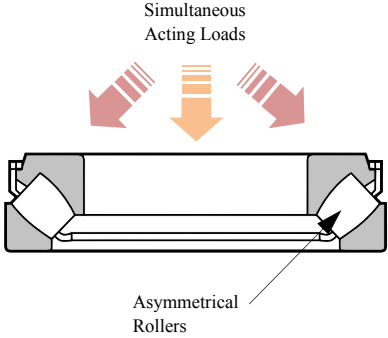
THRUST BALL BEARINGS
Double Direction

Table 64
Bore Diameter 10mm - 150mm

Principal Dimensions			Basic Load Ratings		Speed Ratings		Mass	Designations			
d	D	B	Dynamic C	Static C ₀	Ref. Speed	Limiting Speed		Local	SKF	FAG	NSK
mm			kN		r/min		kg				
10	32	22	16.5	27	7000	10000	0.084	52202	52202	52202	52202
15	40	26	22.5	40.5	6000	8000	0.15	52204	52204	52204	52204
20	47	28	27.6	55	5300	7500	0.22	52205	52205	52205	52205
20	52	34	34.5	60	4500	6300	0.33	52305	52305	52305	52305
20	70	52	72.8	137	3000	4300	1	52406	52406	52406	52406
25	52	29	25.5	51	4800	6700	0.25	52206	52206	52206	52206
25	60	38	37.7	71	3800	5300	0.45	52306	52306	52306	52306
25	80	59	87.1	170	2600	3800	1.37	52407	52407	52407	52407
30	62	34	35.1	73.5	4000	5600	0.41	52207	52207	52207	52207
30	68	36	46.8	106	3800	5300	0.55	52208	52208	52208	52208
30	68	44	49.4	96.5	3200	4500	0.68	52307	52307	52307	52307
30	78	49	61.8	122	3000	4300	1.05	52308	52308	52308	52308
30	90	65	112	224	2400	3400	2.05	52408	52408	52408	52408
35	73	37	39	86.5	3600	5000	0.6	52209	52209	52209	52209
35	85	52	76.1	153	2800	4000	1.24	52309	52309	52309	52309
35	100	72	130	265	2200	3000	2.7	52409	52409	52409	52409
40	78	39	49.4	116	3400	4500	0.67	52210	52210	52210	52210
40	95	58	88.4	190	2600	3600	1.75	52310	52310	52310	52310
45	90	45	61.8	146	2800	4000	1.1	52211	52211	52211	52211
45	105	64	104	224	2200	3200	2.4	52311	52311	52311	52311
45	120	87	178	390	1800	2400	4.7	52411	52411	52411	52411
50	95	46	62.4	150	2800	3800	1.16	52212	52212	52212	52212
50	110	64	101	224	2200	3000	2.55	52312	52312	52312	52312
50	130	93	199	430	1600	2200	6.35	52412 M	52412 M	52412 MP	52412 M
55	100	47	63.7	163	2600	3600	1.35	52213	52213	52213	52213
55	105	47	65	173	2600	3600	1.5	52214	52214	52214	52214
55	115	65	106	240	2000	3000	2.75	52313	52313	52313	52313
55	125	72	135	320	1900	2600	3.65	52314	52314	52314	52314
55	150	107	234	550	1400	2000	9.7	52414 M	52414 M	52414 MP	52414 M
60	110	47	67.6	183	2400	3400	1.55	52215	52215	52215	52215
60	135	79	163	390	1700	2400	4.8	52315	52315	52315	52315
65	115	48	76.1	208	2400	3400	1.7	52216	52216	52216	52216
65	140	79	159	390	1700	2400	4.94	52316	52316	52316	52316
70	125	55	97.5	275	2200	3000	2.4	52217	52217	52217	52217
75	135	62	119	325	2000	2800	3.2	52218	52218	52218	52218
85	150	67	124	345	1800	2400	4.2	52220	52220	52220	52220
85	170	97	229	610	1400	1900	8.95	52320	52320	52320	52320
95	160	67	130	390	1700	2400	4.65	52222	52222	52222	52222
100	170	68	140	440	1600	2200	5.25	52224	52224	52224	52224
110	190	80	186	585	1400	2000	8	52226	52226	52226	52226
120	200	81	190	620	1400	1900	8.65	52228	52228	52228	52228
130	215	89	238	800	1300	1800	11.5	52230 M	52230 M	52230 MP	52230 M
140	225	90	242	850	1200	1700	12	52232 M	52232 M	52232 MP	52232 M
150	240	97	286	1020	1100	1800	15	52234 M	52234 M	52234 MP	52234 M
150	250	98	296	1080	1100	1500	16	52236 M	52236 M	52236 MP	52236 M

THRUST SPHERICAL ROLLER BEARINGS

Thrust spherical roller bearings are most suitable for applications of radial loads and simultaneously acting axial loads. The loads of the bearings are transmitted from raceway to another at a certain angle to the bearing axis. Self-aligning capability is the most important feature and characteristic of thrust spherical roller bearings, the bearings are insensitive to misalignment or deflection of shaft relatively to the bearing center. Thrust spherical roller bearings are designed with large numbers of asymmetrical or barrel rollers, and specially designed raceway with an optimized conformity, so that they are mostly used to support very heavy axial loads under a considerably high speed operations.



THRUST SPHERICAL ROLLER BEARINGS

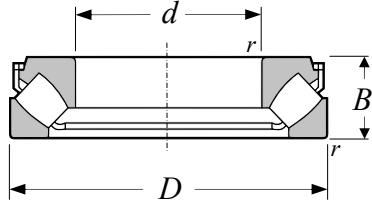


Table 65
Bore Diameter 60mm - 320mm

Principal Dimensions			Basic Load Ratings		Speed Ratings		Mass	Designations			
d	D	B	Dynamic	Static	Ref. Speed	Limiting Speed		Local	SKF	FAG	NSK
mm			C	C ₀	r/min						
60	130	42	390	915	2800	5000	2.6	29412	29412 E	29412 E1	29412
65	140	45	455	1080	2600	4800	3.2	29413	29413 E	29413 E1	29413
70	150	48	520	1250	2400	4300	3.9	29414	29414 E	29414 E1	29414
75	160	51	600	1430	2400	4000	4.7	29415	29415 E	29415 E1	29415
80	170	54	670	1630	2200	3800	5.6	29416	29416 E	29416 E1	29416
85	150	39	380	1060	2400	4000	2.75	29317	29317 E	29317 E1	29317
85	180	58	735	1800	2000	3600	6.75	29417	29417 E	29417 E1	29417
90	155	39	400	1080	2400	4000	2.85	29318	29318 E	29318 E1	29318
90	190	60	815	2000	1900	3400	7.75	29418	29418 E	29418 E1	29418
100	170	42	465	1290	2200	3600	3.65	29320	29320 E	29320 E1	29320
100	210	67	980	2500	1700	3000	10.5	29420	29420 E	29420 E1	29420
110	190	48	610	1730	1900	3200	5.3	29322	29322 E	29322 E1	29322
110	230	73	1180	3000	1600	2800	13.5	29422	29422 E	29422 E1	29422
120	210	54	765	2120	1700	2800	7.35	29324	29324 E	29324 E1	29324
120	250	78	1370	3450	1500	2600	17.5	29424	29424 E	29424 E1	29424
130	225	58	865	2500	1600	2600	9	29326	29326 E	29326 E1	29326
130	270	85	1560	4050	1300	2400	22	29426	29426 E	29426 E1	29426
140	240	60	980	2850	1500	2600	10.5	29328	29328 E	29328 E1	29328
140	280	85	1630	4300	1300	2400	23	29428	29428 E	29428 E1	29428
150	215	39	408	1600	1800	2800	4.3	29230	29230 E	29230 E1	29230
150	250	60	1000	2850	1500	2400	11	29330	29330 E	29330 E1	29330
150	300	90	1860	5100	1200	2200	28	29430	29430 E	29430 E1	29430
160	270	67	1180	3450	1300	2200	14.5	29332	29332 E	29332 E1	29332
160	320	95	2080	5600	1100	2000	33.5	29432	29432 E	29432 E1	29432
170	280	67	1200	3550	1300	2200	15	29334	29334 E	29334 E1	29334
170	340	103	2360	6550	1100	1900	44.5	29434	29434 E	29434 E1	29434
180	250	42	495	2040	1600	2600	5.8	29236 E	29236 E	29236 E1	29236 E
180	300	73	1430	4300	1200	2000	19.5	29336	29336 E	29336 E1	29336
180	360	109	2600	7350	1000	1800	52.5	29436	29436 E	29436 E1	29436
190	320	78	1630	4750	1100	1900	23.5	29338	29338 E	29338 E1	29338
190	380	115	2850	8000	950	1700	60.5	29438	29438 E	29438 E1	29438
200	280	48	656	2650	1400	2200	9.3	29240 E	29240 E	29240 E1	29240 E
200	340	85	1860	5500	1000	1700	29.5	29340	29340 E	29340 E1	29340
200	400	122	3200	9000	850	1600	72	29440	29440 E	29440 E1	29440
220	300	48	690	3000	1300	2200	10	29244 E	29244 E	29244 E1	29244 E
220	360	85	2000	6300	1000	1700	33.5	29344	29344 E	29344 E1	29344
220	420	122	3350	9650	850	1500	75	29444	29444 E	29444 E1	29444
240	340	60	799	3450	1100	1800	16.5	29248	29248	29248	29248
240	380	85	2040	6550	1000	1600	35.5	29348	29348 E	29348 E1	29348
240	440	122	3400	10200	850	1500	80	29448	29448 E	29448 E1	29448
260	360	60	817	3650	1100	1700	18.5	29252	29252	29252	29252
260	420	95	2550	8300	850	1400	49	29352	29352 E	29352 E1	29352
260	480	132	4050	12900	750	1300	105	29452	29452 E	29452 E1	29452
280	380	60	863	4000	1000	1700	19.5	29256	29256	29256	29256
280	440	95	2550	8650	850	1400	53	29356	29356 E	29356 E1	29356
280	520	145	4900	15300	670	1200	135	29456	29456 E	29456 E1	29456
300	420	73	1070	4800	900	1400	30.5	29260	29260	29260	29260
300	480	109	3100	10600	750	1200	75	29360	29360 E	29360 E1	29360
300	540	145	4310	16600	600	1200	140	29460 E	29460 E	29460 E1	29460 E
320	440	73	1110	5100	850	1400	33	29264	29264	29264	29264

THRUST SPHERICAL ROLLER BEARINGS

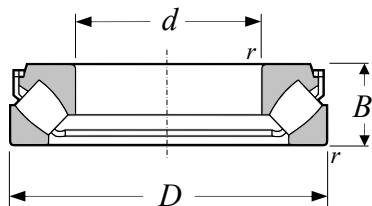


Table 66
Bore Diameter 320mm - 850mm

Principal Dimensions			Basic Load Ratings		Speed Ratings		Mass	Designations			
d	D	B	C	C ₀	Ref. Speed	Limiting Speed		Local	SKF	FAG	NSK
mm			kN		r/min		kg				
320	500	109	3350	11200	750	1200	78	29364	29364 E	29364 E1	29364
320	580	155	4950	19000	560	1100	175	29464 E	29464 E	29464 E1	29464 E
340	460	73	1130	5400	850	1300	33.5	29268	29268	29268	29268
340	540	122	2710	11000	600	1100	105	29368	29368	29368	29368
340	620	170	5750	22400	500	1000	220	29468 E	29468 E	29468 E1	29468 E
360	500	85	1460	6800	750	1200	52	29272	29272	29272	29272
360	560	122	2760	11600	600	1100	110	29372	29372	29372	29372
360	640	170	5350	21200	500	950	230	29472 M	29472 EM	29472 E1.MB	29472 M
380	520	85	1580	7650	700	1100	53	29276	29276	29276	29276
380	600	132	3340	14000	530	1000	140	29376	29376	29376	29376
380	670	175	5870	24000	480	900	260	29476 M	29476 EM	29476 E1.MB	29476 M
400	540	85	1610	8000	700	1100	55.5	29280	29280	29280	29280
400	620	132	3450	14600	530	950	150	29380	29380	29380	29380
400	710	185	6560	26500	450	850	310	29480 M	29480 EM	29480 E1.MB	29480 M
420	580	95	1990	9800	630	1000	75.5	29284	29284	29284	29284
420	650	140	3740	16000	500	900	170	29384	29384	29384	29384
420	730	185	6730	27500	430	850	325	29484 M	29484 EM	29484 E1.MB	29484 M
440	600	95	2070	10400	630	1000	78	29288	29288	29288	29288
440	680	145	4490	19300	480	850	180	29388 M	29388 EM	29388 E1.MB	29388 M
440	780	206	7820	32000	380	750	410	29488 M	29488 EM	29488 E1.MB	29488 M
460	620	95	2070	10600	600	950	81	29292	29292	29292	29292
460	710	150	4310	19000	450	800	215	29392	29392	29392	29392
460	800	206	7990	33500	380	750	425	29492 M	29492 EM	29492 E1.MB	29492 M
480	650	103	2350	11800	560	900	98	29296	29296	29296	29296
480	730	150	4370	19600	450	800	220	29396	29396	29396	29396
480	850	224	9550	39000	340	670	550	29496 M	29496 EM	29496 E1.MB	29496 M
500	670	103	2390	12500	560	900	100	292/500	292/500	292/500	292/500
500	750	150	4490	20400	430	800	235	293/500	293/500	293/500	293/500
500	870	224	9370	40000	340	670	560	294/500 M	294/500 EM	294/500 E1.MB	294/500 M
530	710	109	3110	15300	530	850	115	292/530 M	292/530 EM	292/530 E1.MB	292/530 M
530	800	160	5230	23600	400	750	270	293/530	293/530	293/530	293/530
530	920	236	10500	44000	320	630	650	294/530 M	294/530 EM	294/530 E1.MB	294/530 M
560	750	115	2990	16000	480	800	140	292/560	292/560	292/560	292/560
560	980	250	12000	51000	300	560	810	294/560 M	294/560 EM	294/560 E1.MB	294/560 M
600	800	122	3740	18600	450	700	170	292/600 M	292/600 EM	292/600 E1.MB	292/600 M
600	1030	258	13100	56000	280	530	845	294/600 M	294/600 EM	294/600 E1.MB	294/600 M
630	850	132	4770	23600	400	670	210	292/630 M	292/630 EM	292/630 E1.MB	292/630 M
630	950	190	8450	38000	320	600	485	293/630 M	293/630 EM	293/630 E1.MB	293/630 M
630	1090	280	14400	62000	260	500	1040	294/630 M	294/630 EM	294/630 E1.MB	294/630 M
670	900	140	4200	22800	380	630	255	292/670	292/670	292/670	292/670
670	1150	290	15400	68000	240	450	1210	294/670 M	294/670 EM	294/670 E1.MB	294/670 M
710	1060	212	9950	45500	280	500	660	293/710 M	293/710 EM	293/710 E1.MB	293/710 M
710	1220	308	17600	76500	220	430	1500	294/710 E	294/710 EF	294/710 E1	294/710 E
750	1000	150	6100	31000	340	560	325	292/750 M	292/750 EM	292/750 E1.MB	292/750 M
750	1120	224	9370	45000	260	480	770	293/750	293/750	293/750	293/750
750	1280	315	18700	85000	200	400	1650	294/750 E	294/750 EF	294/750 E1	294/750 E
800	1060	155	6560	34500	320	530	380	292/800 M	292/800 EM	292/800 E1.MB	292/800 M
800	1180	230	9950	49000	240	450	865	293/800	293/800	293/800	293/800
800	1360	335	20200	93000	190	360	2025	294/800 E	294/800 EF	294/800 E1	294/800 E
850	1120	160	6730	36000	300	500	425	292/850 M	292/850 EM	292/850 E1.MB	292/850 M

THRUST SPHERICAL ROLLER BEARINGS

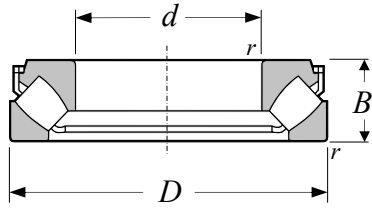


Table 67
Bore Diameter 850mm - 1600mm

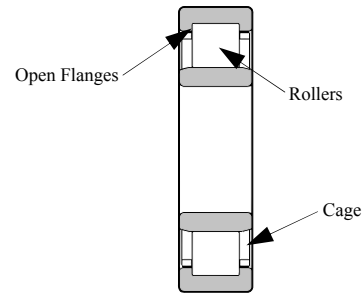
Principal Dimensions			Basic Load Ratings		Speed Ratings		Mass	Designations			
d	D	B	Dynamic	Static	Ref. Speed	Limiting Speed		Local	SKF	FAG	NSK
mm			C	C ₀	r/min						
850	1440	354	23900	108000	170	340	2390	294/850 E	294/850 EF	294/850 E1	294/850 E
900	1520	372	26700	122000	160	300	2650	294/900 E	294/900 EF	294/900 E1	294/900 E
950	1250	180	8280	45500	260	430	600	292/950 M	292/950 EM	292/950 E1.MB	292/950 M
950	1600	390	28200	132000	140	280	3065	294/950 E	294/950 EF	294/950 E1	294/950 E
1060	1400	206	10500	58500	220	360	860	292/1060 E	292/1060 EF	292/1060 E1	292/1060 E
1060	1770	426	33400	156000	120	240	4280	294/1060 E	294/1060 EF	294/1060 E1	294/1060 E
1180	1520	206	10900	64000	220	340	950	292/1180 E	292/1180 EF	292/1180 E1	292/1180 E
1250	1800	330	24800	129000	130	240	2770	293/1250 E	293/1250 EF	293/1250 E1	293/1250 E
1600	2280	408	36800	200000	90	160	5375	293/1600 E	293/1600 EF	293/1600 E1	293/1600 E

CYLINDRICAL ROLLER BEARINGS

Cylindrical roller bearings are available in many designs, such as single row cylindrical roller bearing with cage, and full complement type (without cage) of cylindrical roller bearings. Bearings with cage are designed to accommodate heavy loads and high speed operations, whereas the full complement type of bearings are mostly suitable where there is very heavy loads at moderate speed operations.

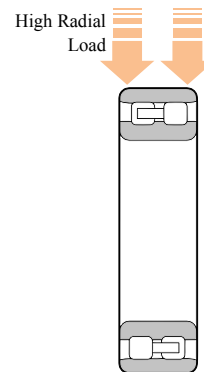
Single Row Cylindrical Roller Bearings

The rings of single row cylindrical roller bearings are flanged on one of the rings that guide the rollers during operation. These are sometimes called the "open" flanges. The rollers' end surfaces are particularly treated to have better lubrication, lower friction, and lower operating temperature, when they roll by the "open" flanges. Its' separable design of rings the roller and cage assemblies facilitating a better and easier mounting and dismounting job.



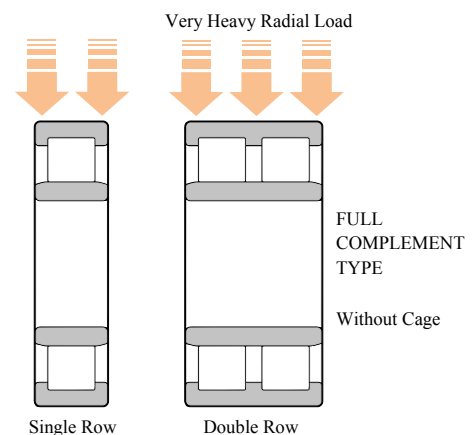
Double Row Cylindrical Roller Bearings

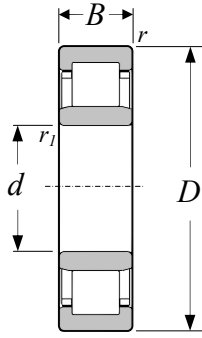
The main characteristic of double row cylindrical roller bearing is its' high level of stiffness and the capability to carry very high radial load. Therefore they are mainly used in many machine tools and also large gearboxes. The bearing is designed to be separable, the rings and the rollers and cage assemblies can be mounted separately. And thus facilitating in bearing mountings, inspection and maintenance of the bearings. Also, they are available in cylindrical and tapered bores.



Full Complement Cylindrical Roller Bearings

Full complement cylindrical roller bearings are without cage, so that it allows the bearing to have maximum possible quantity of rollers, and thus enabled the bearing to have greater carrying load capacity in comparison to normal types of similar size cylindrical roller bearings with cage. However, full complement cylindrical roller bearings have poorer performance in high speed operation, so they are mostly used for applications of considerably low speeds but under heavy loads. Full complement bearings are available both in single row and double row.





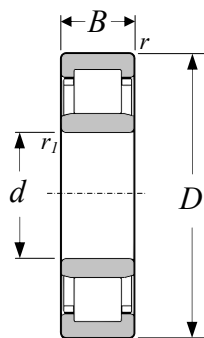
CYLINDRICAL ROLLER BEARINGS
Single Row

Table 68
Bore Diameter 15mm - 25mm

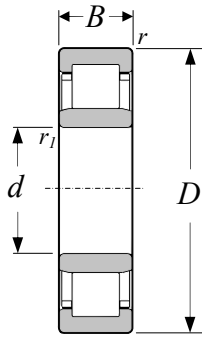
Principal Dimensions			Basic Load Ratings		Speed Ratings		Mass	Designations			
d	D	B	Dynamic	Static	Ref. Speed	Limiting Speed		Local	SKF	FAG	NSK
mm			C	C ₀	r/min		kg				
15	35	11	12.5	10.2	22000	26000	0.049	NJ 202 T	NJ 202 ECP	NJ 202 E.TVP2	NJ 202 T
15	35	11	12.5	10.2	22000	26000	0.047	NU 202 T	NU 202 ECP	NU 202 E.TVP2	NU 202 T
15	35	11	12.5	10.2	22000	34000	0.047	NU 202 T	NU 202 ECPHA	NU 202 E.TVP2	NU 202 T
17	40	12	17.2	14.3	19000	22000	0.066	N 203 T	N 203 ECP	N 203 E.TVP2	N 203 T
17	40	12	17.2	14.3	19000	34000	0.07	NJ 203 M	NJ 203 ECML	NJ 203 E.M1	NJ 203 M
17	40	12	17.2	14.3	19000	22000	0.07	NJ 203 T	NJ 203 ECP	NJ 203 E.TVP2	NJ 203 T
17	40	12	17.2	14.3	19000	34000	0.068	NU 203 M	NU 203 ECML	NU 203 E.M1	NU 203 M
17	40	12	17.2	14.3	19000	22000	0.068	NU 203 T	NU 203 ECP	NU 203 E.TVP2	NU 203 T
17	40	12	17.2	14.3	19000	22000	0.073	NUP 203 T	NUP 203 ECP	NUP 203 E.TVP2	NUP 203 T
17	40	16	23.8	21.6	19000	22000	0.095	NJ 2203 T	NJ 2203 ECP	NJ 2203 E.TVP2	NJ 2203 T
17	40	16	23.8	21.6	19000	22000	0.092	NU 2203 T	NU 2203 ECP	NU 2203 E.TVP2	NU 2203 T
17	40	16	23.8	21.6	19000	22000	0.097	NUP 2203 T	NUP 2203 ECP	NUP 2203 E.TVP2	NUP 2203 T
17	47	14	24.6	20.4	15000	20000	0.12	N 303 T	N 303 ECP	N 303 E.TVP2	N 303 T
17	47	14	24.6	20.4	15000	20000	0.12	NJ 303 T	NJ 303 ECP	NJ 303 E.TVP2	NJ 303 T
17	47	14	24.6	20.4	15000	20000	0.12	NU 303 T	NU 303 ECP	NU 303 E.TVP2	NU 303 T
20	47	14	25.1	22	16000	19000	0.11	N 204 T	N 204 ECP	N 204 E.TVP2	N 204 T
20	47	14	25.1	22	16000	19000	0.12	NF 204 T	NF 204 ECP	NF 204 E.TVP2	NF 204 T
20	47	14	25.1	22	16000	30000	0.11	NJ 204 M	NJ 204 ECML	NJ 204 E.M1	NJ 204 M
20	47	14	25.1	22	16000	19000	0.11	NJ 204 T	NJ 204 ECP	NJ 204 E.TVP2	NJ 204 T
20	47	14	25.1	22	16000	30000	0.11	NU 204 M	NU 204 ECML	NU 204 E.M1	NU 204 M
20	47	14	25.1	22	16000	19000	0.11	NU 204 T	NU 204 ECP	NU 204 E.TVP2	NU 204 T
20	47	14	25.1	22	16000	24000	0.11	NU 204 T	NU 204 ECPHA	NU 204 E.TVP2	NU 204 T
20	47	14	25.1	22	16000	30000	0.12	NUP 204 M	NUP 204 ECML	NUP 204 E.M1	NUP 204 M
20	47	14	25.1	22	16000	19000	0.12	NUP 204 T	NUP 204 ECP	NUP 204 E.TVP2	NUP 204 T
20	47	14	25.1	22	16000	24000	0.12	NUP 204 T	NUP 204 ECPHA	NUP 204 E.TVP2	NUP 204 T
20	47	18	29.7	27.5	16000	19000	0.14	NJ 2204 T	NJ 2204 ECP	NJ 2204 E.TVP2	NJ 2204 T
20	47	18	29.7	27.5	16000	19000	0.14	NU 2204 T	NU 2204 ECP	NU 2204 E.TVP2	NU 2204 T
20	52	15	35.5	26	15000	18000	0.15	N 304 T	N 304 ECP	N 304 E.TVP2	N 304 T
20	52	15	35.5	26	15000	18000	0.17	NJ 304 T	NJ 304 ECP	NJ 304 E.TVP2	NJ 304 T
20	52	15	35.5	26	15000	18000	0.16	NU 304 T	NU 304 ECP	NU 304 E.TVP2	NU 304 T
20	52	15	35.5	26	15000	18000	0.16	NUP 304 T	NUP 304 ECP	NUP 304 E.TVP2	NUP 304 T
20	52	21	47.5	38	15000	18000	0.22	NJ 2304 T	NJ 2304 ECP	NJ 2304 E.TVP2	NJ 2304 T
20	52	21	47.5	38	15000	18000	0.21	NU 2304 T	NU 2304 ECP	NU 2304 E.TVP2	NU 2304 T
20	52	21	47.5	38	15000	18000	0.22	NUP 2304 T	NUP 2304 ECP	NUP 2304 E.TVP2	NUP 2304 T
25	47	12	14.2	13.2	18000	18000	0.084	NU 1005	NU 1005	NU 1005	NU 1005
25	52	15	28.6	27	14000	16000	0.13	N 205 T	N 205 ECP	N 205 E.TVP2	N 205 T
25	52	15	28.6	27	14000	16000	0.15	NJ 205 W	NJ 205 ECJ	NJ 205 E1	NJ 205 W
25	52	15	28.6	27	14000	26000	0.15	NJ 205 M	NJ 205 ECML	NJ 205 E.M1	NJ 205 M
25	52	15	28.6	27	14000	16000	0.15	NJ 205 T	NJ 205 ECP	NJ 205 E.TVP2	NJ 205 T
25	52	15	28.6	27	14000	16000	0.14	NU 205 W	NU 205 ECJ	NU 205 E1	NU 205 W
25	52	15	28.6	27	14000	26000	0.14	NU 205 M	NU 205 ECML	NU 205 E.M1	NU 205 M
25	52	15	28.6	27	14000	16000	0.14	NU 205 T	NU 205 ECP	NU 205 E.TVP2	NU 205 T
25	52	15	28.6	27	14000	22000	0.14	NU 205 T	NU 205 ECPHA	NU 205 E.TVP2	NU 205 T
25	52	15	28.6	27	14000	16000	0.14	NUP 205 M	NUP 205 ECML	NUP 205 E.M1	NUP 205 M
25	52	15	28.6	27	14000	16000	0.14	NUP 205 T	NUP 205 ECP	NUP 205 E.TVP2	NUP 205 T
25	52	18	34.1	34	14000	16000	0.18	NJ 2205 T	NJ 2205 ECP	NJ 2205 E.TVP2	NJ 2205 T
25	52	18	34.1	34	14000	26000	0.17	NU 2205 M	NU 2205 ECML	NU 2205 E.M1	NU 2205 M
25	52	18	34.1	34	14000	16000	0.17	NU 2205 T	NU 2205 ECP	NU 2205 E.TVP2	NU 2205 T
25	52	18	34.1	34	14000	16000	0.17	NUP 2205 T	NUP 2205 ECP	NUP 2205 E.TVP2	NUP 2205 T
25	62	17	46.5	36.5	12000	15000	0.24	N 305 T	N 305 ECP	N 305 E.TVP2	N 305 T

CYLINDRICAL ROLLER BEARINGS
Single Row

Table 69
Bore Diameter 25mm - 30mm



Principal Dimensions			Basic Load Ratings		Speed Ratings		Mass	Designations			
d	D	B	Dynamic	Static	Ref. Speed	Limiting Speed					
mm			C	C ₀	r/min		Local	SKF	FAG	NSK	
25	62	17	46.5	36.5	12000	15000	0.29	NJ 305 W	NJ 305 ECJ	NJ 305 E1	NJ 305 W
25	62	17	46.5	36.5	12000	22000	0.29	NJ 305 M	NJ 305 ECML	NJ 305 E.M1	NJ 305 M
25	62	17	46.5	36.5	12000	15000	0.29	NJ 305 T	NJ 305 ECP	NJ 305 E.TVP2	NJ 305 T
25	62	17	46.5	36.5	12000	15000	0.28	NU 305 W	NU 305 ECJ	NU 305 E1	NU 305 W
25	62	17	46.5	36.5	12000	22000	0.28	NU 305 M	NU 305 ECML	NU 305 E.M1	NU 305 M
25	62	17	46.5	36.5	12000	15000	0.28	NU 305 T	NU 305 ECP	NU 305 E.TVP2	NU 305 T
25	62	17	46.5	36.5	12000	15000	0.25	NUP 305 W	NUP 305 ECJ	NUP 305 E1	NUP 305 W
25	62	17	46.5	36.5	12000	22000	0.25	NUP 305 M	NUP 305 ECML	NUP 305 E.M1	NUP 305 M
25	62	17	46.5	36.5	12000	15000	0.25	NUP 305 T	NUP 305 ECNP	NUP 305 E.TVP2	NUP 305 T
25	62	17	46.5	36.5	12000	15000	0.25	NUP 305 T	NUP 305 ECP	NUP 305 E.TVP2	NUP 305 T
25	62	24	64	55	12000	15000	0.42	NJ 2305 M	NJ 2305 ECML	NJ 2305 E.M1	NJ 2305 M
25	62	24	64	55	12000	15000	0.39	NJ 2305 T	NJ 2305 ECP	NJ 2305 E.TVP2	NJ 2305 T
25	62	24	64	55	12000	15000	0.38	NU 2305 W	NU 2305 ECJ	NU 2305 E1	NU 2305 W
25	62	24	64	55	12000	22000	0.41	NU 2305 M	NU 2305 ECML	NU 2305 E.M1	NU 2305 M
25	62	24	64	55	12000	15000	0.38	NU 2305 T	NU 2305 ECP	NU 2305 E.TVP2	NU 2305 T
25	62	24	64	55	12000	22000	0.41	NUP 2305 M	NUP 2305 ECML	NUP 2305 E.M1	NUP 2305 M
25	62	24	64	55	12000	15000	0.38	NUP 2305 T	NUP 2305 ECP	NUP 2305 E.TVP2	NUP 2305 T
30	55	13	17.9	17.3	15000	15000	0.12	NU 1006	NU 1006	NU 1006	NU 1006
30	62	16	44	36.5	13000	14000	0.2	N 206 M	N 206 ECM	N 206 E.M1	N 206 M
30	62	16	44	36.5	13000	14000	0.2	N 206 T	N 206 ECP	N 206 E.TVP2	N 206 T
30	62	16	44	36.5	13000	14000	0.24	NJ 206 W	NJ 206 ECJ	NJ 206 E1	NJ 206 W
30	62	16	44	36.5	13000	22000	0.24	NJ 206 M	NJ 206 ECML	NJ 206 E.M1	NJ 206 M
30	62	16	44	36.5	13000	14000	0.24	NJ 206 T	NJ 206 ECP	NJ 206 E.TVP2	NJ 206 T
30	62	16	44	36.5	13000	14000	0.23	NU 206 W	NU 206 ECJ	NU 206 E1	NU 206 W
30	62	16	44	36.5	13000	22000	0.23	NU 206 M	NU 206 ECML	NU 206 E.M1	NU 206 M
30	62	16	44	36.5	13000	14000	0.23	NU 206 T	NU 206 ECP	NU 206 E.TVP2	NU 206 T
30	62	16	44	36.5	13000	22000	0.22	NUP 206 M	NUP 206 ECML	NUP 206 E.M1	NUP 206 M
30	62	16	44	36.5	13000	14000	0.22	NUP 206 T	NUP 206 ECP	NUP 206 E.TVP2	NUP 206 T
30	62	20	55	49	13000	14000	0.27	NJ 2206 W	NJ 2206 ECJ	NJ 2206 E1	NJ 2206 W
30	62	20	55	49	13000	14000	0.27	NJ 2206 T	NJ 2206 ECP	NJ 2206 E.TVP2	NJ 2206 T
30	62	20	55	49	13000	14000	0.26	NU 2206 W	NU 2206 ECJ	NU 2206 E1	NU 2206 W
30	62	20	55	49	13000	22000	0.29	NU 2206 M	NU 2206 ECML	NU 2206 E.M1	NU 2206 M
30	62	20	55	49	13000	14000	0.26	NU 2206 T	NU 2206 ECP	NU 2206 E.TVP2	NU 2206 T
30	62	20	55	49	13000	14000	0.27	NUP 2206 T	NUP 2206 ECP	NUP 2206 E.TVP2	NUP 2206 T
30	72	19	58.5	48	11000	12000	0.36	N 306 T	N 306 ECP	N 306 E.TVP2	N 306 T
30	72	19	58.5	48	11000	12000	0.41	NJ 306 W	NJ 306 ECJ	NJ 306 E1	NJ 306 W
30	72	19	58.5	48	11000	12000	0.41	NJ 306 M	NJ 306 ECM	NJ 306 E.M1	NJ 306 M
30	72	19	58.5	48	11000	19000	0.41	NJ 306 M	NJ 306 ECML	NJ 306 E.M1	NJ 306 M
30	72	19	58.5	48	11000	12000	0.41	NJ 306 T	NJ 306 ECP	NJ 306 E.TVP2	NJ 306 T
30	72	19	58.5	48	11000	12000	0.4	NU 306 W	NU 306 ECJ	NU 306 E1	NU 306 W
30	72	19	58.5	48	11000	12000	0.44	NU 306 M	NU 306 ECM	NU 306 E.M1	NU 306 M
30	72	19	58.5	48	11000	19000	0.44	NU 306 M	NU 306 ECML	NU 306 E.M1	NU 306 M
30	72	19	58.5	48	11000	12000	0.4	NU 306 T	NU 306 ECP	NU 306 E.TVP2	NU 306 T
30	72	19	58.5	48	11000	12000	0.38	NUP 306 W	NUP 306 ECJ	NUP 306 E1	NUP 306 W
30	72	19	58.5	48	11000	12000	0.38	NUP 306 M	NUP 306 ECM	NUP 306 E.M1	NUP 306 M
30	72	19	58.5	48	11000	19000	0.38	NUP 306 M	NUP 306 ECML	NUP 306 E.M1	NUP 306 M
30	72	19	58.5	48	11000	12000	0.38	NUP 306 M	NUP 306 ECNP	NUP 306 E1	NUP 306 M
30	72	19	58.5	48	11000	12000	0.38	NUP 306 T	NUP 306 ECP	NUP 306 E.TVP2	NUP 306 T
30	72	27	83	75	11000	19000	0.58	NJ 2306 M	NJ 2306 ECML	NJ 2306 E.M1	NJ 2306 M
30	72	27	83	75	11000	12000	0.54	NJ 2306 T	NJ 2306 ECP	NJ 2306 E.TVP2	NJ 2306 T



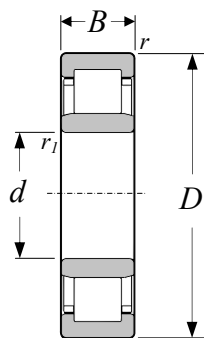
CYLINDRICAL ROLLER BEARINGS
Single Row

Table 70
Bore Diameter 30mm - 35mm

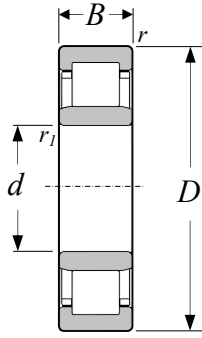
Principal Dimensions			Basic Load Ratings		Speed Ratings		Mass	Designations			
d	D	B	Dynamic	Static	Ref. Speed	Limiting Speed					
mm			C	C ₀	r/min		Local	SKF	FAG	NSK	
30	72	27	83	75	11000	19000	0.57	NU 2306 M	NU 2306 ECML	NU 2306 E.M1	NU 2306 M
30	72	27	83	75	11000	12000	0.53	NU 2306 T	NU 2306 ECP	NU 2306 E.TVP2	NU 2306 T
30	72	27	83	75	11000	19000	0.55	NUP 2306 M	NUP 2306 ECML	NUP 2306 E.M1	NUP 2306 M
30	72	27	83	75	11000	12000	0.55	NUP 2306 T	NUP 2306 ECP	NUP 2306 E.TVP2	NUP 2306 T
30	90	23	60.5	53	9000	11000	0.77	NJ 406	NJ 406	NJ 406	NJ 406
30	90	23	60.5	53	9000	14000	0.83	NJ 406 M	NJ 406 MA	NJ 406 E.M1	NJ 406 M
30	90	23	60.5	53	9000	11000	0.75	NU 406	NU 406	NU 406	NU 406
30	90	23	60.5	53	9000	14000	0.81	NU 406 M	NU 406 MA	NU 406 E.M1	NU 406 M
35	62	14	35.8	38	12000	20000	0.16	NU 1007 M	NU 1007 ECMP	NU 1007 E.M1	NU 1007 M
35	62	14	35.8	38	12000	13000	0.16	NU 1007 T	NU 1007 ECP	NU 1007 E.TVP2	NU 1007 T
35	72	17	56	48	11000	12000	0.33	N 207 M	N 207 ECM	N 207 E.M1	N 207 M
35	72	17	56	48	11000	12000	0.3	N 207 T	N 207 ECP	N 207 E.TVP2	N 207 T
35	72	17	56	48	11000	12000	0.32	NJ 207 W	NJ 207 ECJ	NJ 207 E1	NJ 207 W
35	72	17	56	48	11000	12000	0.34	NJ 207 M	NJ 207 ECM	NJ 207 E.M1	NJ 207 M
35	72	17	56	48	11000	18000	0.34	NJ 207 M	NJ 207 ECML	NJ 207 E.M1	NJ 207 M
35	72	17	56	48	11000	12000	0.31	NJ 207 T	NJ 207 ECP	NJ 207 E.TVP2	NJ 207 T
35	72	17	56	48	11000	12000	0.31	NJ 207 T	NJ 207 ECPH	NJ 207 E.TVP2	NJ 207 T
35	72	17	56	48	11000	12000	0.31	NU 207 W	NU 207 ECJ	NU 207 E1	NU 207 W
35	72	17	56	48	11000	12000	0.33	NU 207 M	NU 207 ECM	NU 207 E.M1	NU 207 M
35	72	17	56	48	11000	18000	0.33	NU 207 M	NU 207 ECML	NU 207 E.M1	NU 207 M
35	72	17	56	48	11000	12000	0.3	NU 207 T	NU 207 ECP	NU 207 E.TVP2	NU 207 T
35	72	17	56	48	11000	12000	0.3	NU 207 T	NU 207 ECPH	NU 207 E.TVP2	NU 207 T
35	72	17	56	48	11000	12000	0.33	NUP 207 W	NUP 207 ECJ	NUP 207 E1	NUP 207 W
35	72	17	56	48	11000	12000	0.36	NUP 207 M	NUP 207 ECM	NUP 207 E.M1	NUP 207 M
35	72	17	56	48	11000	18000	0.36	NUP 207 M	NUP 207 ECML	NUP 207 E.M1	NUP 207 M
35	72	17	56	48	11000	12000	0.32	NUP 207 T	NUP 207 ECP	NUP 207 E.TVP2	NUP 207 T
35	72	23	69.5	63	11000	12000	0.4	N 2207 M	N 2207 ECM	N 2207 E.M1	N 2207 M
35	72	23	69.5	63	11000	12000	0.41	NJ 2207 W	NJ 2207 ECJ	NJ 2207 E1	NJ 2207 W
35	72	23	69.5	63	11000	18000	0.44	NJ 2207 M	NJ 2207 ECML	NJ 2207 E.M1	NJ 2207 M
35	72	23	69.5	63	11000	12000	0.41	NJ 2207 M	NJ 2207 ECNJ	NJ 2207 E1	NJ 2207 M
35	72	23	69.5	63	11000	12000	0.41	NJ 2207 T	NJ 2207 ECP	NJ 2207 E.TVP2	NJ 2207 T
35	72	23	69.5	63	11000	12000	0.41	NJ 2207 T	NJ 2207 ECPH	NJ 2207 E.TVP2	NJ 2207 T
35	72	23	69.5	63	11000	12000	0.4	NU 2207 W	NU 2207 ECJ	NU 2207 E1	NU 2207 W
35	72	23	69.5	63	11000	18000	0.4	NU 2207 M	NU 2207 ECML	NU 2207 E.M1	NU 2207 M
35	72	23	69.5	63	11000	12000	0.4	NU 2207 T	NU 2207 ECP	NU 2207 E.TVP2	NU 2207 T
35	72	23	69.5	63	11000	12000	0.42	NUP 2207 T	NUP 2207 ECP	NUP 2207 E.TVP2	NUP 2207 T
35	80	21	75	63	9500	11000	0.55	N 307 M	N 307 ECM	N 307 E.M1	N 307 M
35	80	21	75	63	9500	11000	0.48	N 307 T	N 307 ECP	N 307 E.TVP2	N 307 T
35	80	21	75	63	9500	11000	0.51	NF 307 T	NF 307 ECP	NF 307 E.TVP2	NF 307 T
35	80	21	75	63	9500	11000	0.55	NJ 307 W	NJ 307 ECJ	NJ 307 E1	NJ 307 W
35	80	21	75	63	9500	11000	0.59	NJ 307 M	NJ 307 ECM	NJ 307 E.M1	NJ 307 M
35	80	21	75	63	9500	17000	0.59	NJ 307 M	NJ 307 ECML	NJ 307 E.M1	NJ 307 M
35	80	21	75	63	9500	11000	0.55	NJ 307 T	NJ 307 ECP	NJ 307 E.TVP2	NJ 307 T
35	80	21	75	63	9500	11000	0.54	NU 307 W	NU 307 ECJ	NU 307 E1	NU 307 W
35	80	21	75	63	9500	17000	0.58	NU 307 M	NU 307 ECM	NU 307 E.M1	NU 307 M
35	80	21	75	63	9500	11000	0.58	NU 307 M	NU 307 ECML	NU 307 E.M1	NU 307 M
35	80	21	75	63	9500	11000	0.54	NU 307 T	NU 307 ECP	NU 307 E.TVP2	NU 307 T
35	80	21	75	63	9500	11000	0.51	NUP 307 W	NUP 307 ECJ	NUP 307 E1	NUP 307 W
35	80	21	75	63	9500	11000	0.57	NUP 307 M	NUP 307 ECM	NUP 307 E.M1	NUP 307 M
35	80	21	75	63	9500	17000	0.57	NUP 307 M	NUP 307 ECML	NUP 307 E.M1	NUP 307 M

CYLINDRICAL ROLLER BEARINGS
Single Row

Table 71
Bore Diameter 35mm - 40mm



Principal Dimensions			Basic Load Ratings		Speed Ratings		Mass	Designations			
d	D	B	Dynamic	Static	Ref. Speed	Limiting Speed					
mm			C	C ₀	r/min		Local	SKF	FAG	NSK	
35	80	21	75	63	9500	11000	0.51	NUP 307 T	NUP 307 ECP	NUP 307 E.TVP2	NUP 307 T
35	80	31	106	98	9500	11000	0.73	NJ 2307 T	NJ 2307 ECP	NJ 2307 E.TVP2	NJ 2307 T
35	80	31	106	98	9500	11000	0.72	NU 2307 W	NU 2307 ECJ	NU 2307 E1	NU 2307 W
35	80	31	106	98	9500	11000	0.72	NU 2307 T	NU 2307 ECP	NU 2307 E.TVP2	NU 2307 T
35	80	31	106	98	9500	11000	0.75	NUP 2307 T	NUP 2307 ECP	NUP 2307 E.TVP2	NUP 2307 T
35	100	25	76.5	69.5	8000	9500	1.05	N 407	N 407	N 407	N 407
35	100	25	76.5	69.5	8000	9500	1.05	NJ 407	NJ 407	NJ 407	NJ 407
35	100	25	76.5	69.5	8000	9500	1.05	NJ 407 T	NJ 407 TN9	NJ 407 E.TVP2	NJ 407 T
35	100	25	76.5	69.5	8000	9500	1	NU 407	NU 407	NU 407	NU 407
40	68	15	25.1	26	12000	18000	0.22	NU 1008 M	NU 1008 ML	NU 1008 E.M1	NU 1008 M
40	80	18	62	53	9500	14000	0.41	N 208 M	N 208 ECMB	N 208 E.M1	N 208 M
40	80	18	62	53	9500	11000	0.37	N 208 T	N 208 ECP	N 208 E.TVP2	N 208 T
40	80	18	62	53	9500	11000	0.4	NF 208 T	NF 208 ECP	NF 208 E.TVP2	NF 208 T
40	80	18	62	53	9500	11000	0.43	NJ 208 W	NJ 208 ECJ	NJ 208 E1	NJ 208 W
40	80	18	62	53	9500	11000	0.43	NJ 208 M	NJ 208 ECM	NJ 208 E.M1	NJ 208 M
40	80	18	62	53	9500	16000	0.43	NJ 208 M	NJ 208 ECML	NJ 208 E.M1	NJ 208 M
40	80	18	62	53	9500	11000	0.43	NJ 208 T	NJ 208 ECP	NJ 208 E.TVP2	NJ 208 T
40	80	18	62	53	9500	11000	0.42	NU 208 W	NU 208 ECJ	NU 208 E1	NU 208 W
40	80	18	62	53	9500	11000	0.4	NU 208 M	NU 208 ECM	NU 208 E.M1	NU 208 M
40	80	18	62	53	9500	16000	0.4	NU 208 M	NU 208 ECML	NU 208 E.M1	NU 208 M
40	80	18	62	53	9500	11000	0.42	NU 208 T	NU 208 ECP	NU 208 E.TVP2	NU 208 T
40	80	18	62	53	9500	11000	0.4	NUP 208 W	NUP 208 ECJ	NUP 208 E1	NUP 208 W
40	80	18	62	53	9500	11000	0.44	NUP 208 M	NUP 208 ECM	NUP 208 E.M1	NUP 208 M
40	80	18	62	53	9500	16000	0.44	NUP 208 M	NUP 208 ECML	NUP 208 E.M1	NUP 208 M
40	80	18	62	53	9500	11000	0.4	NUP 208 T	NUP 208 ECP	NUP 208 E.TVP2	NUP 208 T
40	80	23	81.5	75	9500	11000	0.55	NJ 2208 W	NJ 2208 ECJ	NJ 2208 E1	NJ 2208 W
40	80	23	81.5	75	9500	16000	0.58	NJ 2208 M	NJ 2208 ECML	NJ 2208 E.M1	NJ 2208 M
40	80	23	81.5	75	9500	11000	0.55	NJ 2208 T	NJ 2208 ECP	NJ 2208 E.TVP2	NJ 2208 T
40	80	23	81.5	75	9500	11000	0.54	NU 2208 W	NU 2208 ECJ	NU 2208 E1	NU 2208 W
40	80	23	81.5	75	9500	16000	0.58	NU 2208 M	NU 2208 ECML	NU 2208 E.M1	NU 2208 M
40	80	23	81.5	75	9500	11000	0.54	NU 2208 T	NU 2208 ECP	NU 2208 E.TVP2	NU 2208 T
40	80	23	81.5	75	9500	11000	0.56	NUP 2208 W	NUP 2208 ECJ	NUP 2208 E1	NUP 2208 W
40	80	23	81.5	75	9500	11000	0.56	NUP 2208 T	NUP 2208 ECP	NUP 2208 E.TVP2	NUP 2208 T
40	90	23	93	78	8000	9500	0.64	N 308 M	N 308 ECM	N 308 E.M1	N 308 M
40	90	23	93	78	8000	9500	0.64	N 308 T	N 308 ECP	N 308 E.TVP2	N 308 T
40	90	23	93	78	8000	9500	0.68	NF 308 T	NF 308 ECP	NF 308 E.TVP2	NF 308 T
40	90	23	93	78	8000	9500	0.75	NJ 308 W	NJ 308 ECJ	NJ 308 E1	NJ 308 W
40	90	23	93	78	8000	9500	0.81	NJ 308 M	NJ 308 ECM	NJ 308 E.M1	NJ 308 M
40	90	23	93	78	8000	15000	0.81	NJ 308 M	NJ 308 ECML	NJ 308 E.M1	NJ 308 M
40	90	23	93	78	8000	9500	0.75	NJ 308 T	NJ 308 ECP	NJ 308 E.TVP2	NJ 308 T
40	90	23	93	78	8000	9500	0.73	NU 308 W	NU 308 ECJ	NU 308 E1	NU 308 W
40	90	23	93	78	8000	9500	0.79	NU 308 M	NU 308 ECM	NU 308 E.M1	NU 308 M
40	90	23	93	78	8000	15000	0.79	NU 308 M	NU 308 ECML	NU 308 E.M1	NU 308 M
40	90	23	93	78	8000	9500	0.73	NU 308 T	NU 308 ECP	NU 308 E.TVP2	NU 308 T
40	90	23	93	78	8000	9500	0.68	NUP 308 M	NUP 308 ECM	NUP 308 E.M1	NUP 308 M
40	90	23	93	78	8000	15000	0.68	NUP 308 M	NUP 308 ECML	NUP 308 E.M1	NUP 308 M
40	90	23	93	78	8000	9500	0.68	NUP 308 T	NUP 308 ECP	NUP 308 E.TVP2	NUP 308 T
40	90	33	129	120	8000	9500	0.96	NJ 2308 W	NJ 2308 ECJ	NJ 2308 E1	NJ 2308 W
40	90	33	129	120	8000	15000	1.04	NJ 2308 M	NJ 2308 ECML	NJ 2308 E.M1	NJ 2308 M
40	90	33	129	120	8000	9500	0.96	NJ 2308 T	NJ 2308 ECP	NJ 2308 E.TVP2	NJ 2308 T



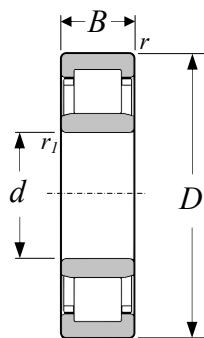
CYLINDRICAL ROLLER BEARINGS
Single Row

Table 72
Bore Diameter 40mm - 45mm

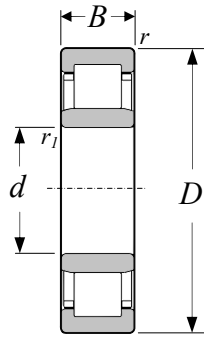
Principal Dimensions			Basic Load Ratings		Speed Ratings		Mass	Designations			
d	D	B	Dynamic	Static	Ref. Speed	Limiting Speed		Local	SKF	FAG	NSK
mm			C	C ₀	r/min		kg				
40	90	33	129	120	8000	9500	0.94	NU 2308 W	NU 2308 ECJ	NU 2308 E1	NU 2308 W
40	90	33	129	120	8000	15000	1.02	NU 2308 M	NU 2308 ECML	NU 2308 E.M1	NU 2308 M
40	90	33	129	120	8000	9500	0.94	NU 2308 T	NU 2308 ECP	NU 2308 E.TVP2	NU 2308 T
40	90	33	129	120	8000	9500	0.98	NUP 2308 M	NUP 2308 ECM	NUP 2308 E.M1	NUP 2308 M
40	90	33	129	120	8000	15000	0.98	NUP 2308 M	NUP 2308 ECML	NUP 2308 E.M1	NUP 2308 M
40	90	33	129	120	8000	9500	0.98	NUP 2308 T	NUP 2308 ECP	NUP 2308 E.TVP2	NUP 2308 T
40	110	27	96.8	90	7000	8500	1.35	NJ 408	NJ 408	NJ 408	NJ 408
40	110	27	96.8	90	7000	11000	1.45	NJ 408 M	NJ 408 MA	NJ 408 E.M1	NJ 408 M
40	110	27	96.8	90	7000	8500	1.3	NU 408	NU 408	NU 408	NU 408
40	110	27	96.8	90	7000	11000	1.4	NU 408 M	NU 408 M	NU 408 E.M1	NU 408 M
45	75	16	44.6	52	9500	11000	0.27	NJ 1009 T	NJ 1009 ECP	NJ 1009 E.TVP2	NJ 1009 T
45	75	16	44.6	52	9500	11000	0.26	NU 1009 T	NU 1009 ECP	NU 1009 E.TVP2	NU 1009 T
45	75	19	52.8	64	9000	11000	0.34	NJ 2009 T	NJ 2009 ECP	NJ 2009 E.TVP2	NJ 2009 T
45	85	19	69.5	64	9000	9500	0.43	N 209 M	N 209 ECM	N 209 E.M1	N 209 M
45	85	19	69.5	64	9000	9500	0.43	N 209 T	N 209 ECP	N 209 E.TVP2	N 209 T
45	85	19	69.5	64	9000	9500	0.49	NJ 209 W	NJ 209 ECJ	NJ 209 E1	NJ 209 W
45	85	19	69.5	64	9000	9500	0.49	NJ 209 M	NJ 209 ECM	NJ 209 E.M1	NJ 209 M
45	85	19	69.5	64	9000	15000	0.49	NJ 209 M	NJ 209 ECML	NJ 209 E.M1	NJ 209 M
45	85	19	69.5	64	9000	9500	0.49	NJ 209 T	NJ 209 ECP	NJ 209 E.TVP2	NJ 209 T
45	85	19	69.5	64	9000	9500	0.48	NU 209 W	NU 209 ECJ	NU 209 E1	NU 209 W
45	85	19	69.5	64	9000	9500	0.46	NU 209 M	NU 209 ECM	NU 209 E.M1	NU 209 M
45	85	19	69.5	64	9000	15000	0.46	NU 209 M	NU 209 ECML	NU 209 E.M1	NU 209 M
45	85	19	69.5	64	9000	9500	0.48	NU 209 T	NU 209 ECP	NU 209 E.TVP2	NU 209 T
45	85	19	69.5	64	9000	9500	0.45	NUP 209 W	NUP 209 ECJ	NUP 209 E1	NUP 209 W
45	85	19	69.5	64	9000	9500	0.45	NUP 209 M	NUP 209 ECM	NUP 209 E.M1	NUP 209 M
45	85	19	69.5	64	9000	15000	0.45	NUP 209 M	NUP 209 ECML	NUP 209 E.M1	NUP 209 M
45	85	19	69.5	64	9000	9500	0.45	NUP 209 T	NUP 209 ECP	NUP 209 E.TVP2	NUP 209 T
45	85	19	69.5	64	9000	9500	0.45	NUPJ 209 T	NUPJ 209 ECP	NUPJ 209 E.TVP2	NUPJ 209 T
45	85	23	85	81.5	9000	9500	0.55	N 2209 W	N 2209 ECJ	N 2209 E1	N 2209 W
45	85	23	85	81.5	9000	9500	0.54	NJ 2209 W	NJ 2209 ECJ	NJ 2209 E1	NJ 2209 W
45	85	23	85	81.5	9000	9500	0.54	NJ 2209 M	NJ 2209 ECNJ	NJ 2209 E1	NJ 2209 M
45	85	23	85	81.5	9000	9500	0.54	NJ 2209 T	NJ 2209 ECP	NJ 2209 E.TVP2	NJ 2209 T
45	85	23	85	81.5	9000	9500	0.52	NU 2209 W	NU 2209 ECJ	NU 2209 E1	NU 2209 W
45	85	23	85	81.5	9000	9500	0.52	NU 2209 T	NU 2209 ECP	NU 2209 E.TVP2	NU 2209 T
45	85	23	85	81.5	9000	9500	0.55	NUP 2209 T	NUP 2209 ECP	NUP 2209 E.TVP2	NUP 2209 T
45	100	25	112	100	7500	8500	0.88	N 309 T	N 309 ECP	N 309 E.TVP2	N 309 T
45	100	25	112	100	7500	8500	1.05	NJ 309 W	NJ 309 ECJ	NJ 309 E1	NJ 309 W
45	100	25	112	100	7500	8500	1.13	NJ 309 M	NJ 309 ECM	NJ 309 E.M1	NJ 309 M
45	100	25	112	100	7500	13000	1.13	NJ 309 M	NJ 309 ECML	NJ 309 E.M1	NJ 309 M
45	100	25	112	100	7500	8500	1.05	NJ 309 T	NJ 309 ECP	NJ 309 E.TVP2	NJ 309 T
45	100	25	112	100	7500	8500	1	NU 309 W	NU 309 ECJ	NU 309 E1	NU 309 W
45	100	25	112	100	7500	8500	1.08	NU 309 M	NU 309 ECM	NU 309 E.M1	NU 309 M
45	100	25	112	100	7500	13000	1.08	NU 309 M	NU 309 ECML	NU 309 E.M1	NU 309 M
45	100	25	112	100	7500	8500	1	NU 309 T	NU 309 ECNP	NU 309 E.TVP2	NU 309 T
45	100	25	112	100	7500	8500	1	NU 309 T	NU 309 ECP	NU 309 E.TVP2	NU 309 T
45	100	25	112	100	7500	8500	0.95	NUP 309 W	NUP 309 ECJ	NUP 309 E1	NUP 309 W
45	100	25	112	100	7500	13000	0.95	NUP 309 M	NUP 309 ECML	NUP 309 E.M1	NUP 309 M
45	100	25	112	100	7500	8500	0.95	NUP 309 T	NUP 309 ECNP	NUP 309 E.TVP2	NUP 309 T
45	100	25	112	100	7500	8500	0.95	NUP 309 T	NUP 309 ECP	NUP 309 E.TVP2	NUP 309 T
45	100	25	112	100	7500	8500	0.95	NUPJ 309 W	NUPJ 309 ECJ	NUPJ 309 E1	NUPJ 309 W

CYLINDRICAL ROLLER BEARINGS
Single Row

Table 73
Bore Diameter 45mm - 50mm



Principal Dimensions			Basic Load Ratings		Speed Ratings		Mass	Designations			
d	D	B	Dynamic	Static	Ref. Speed	Limiting Speed					
mm			C	C ₀	r/min		Local	SKF	FAG	NSK	
45	100	36	160	153	7500	13000	1.45	NJ 2309 M	NJ 2309 ECML	NJ 2309 E.M1	NJ 2309 M
45	100	36	160	153	7500	8500	1.35	NJ 2309 T	NJ 2309 ECP	NJ 2309 E.TVP2	NJ 2309 T
45	100	36	160	153	7500	13000	1.4	NU 2309 M	NU 2309 ECML	NU 2309 E.M1	NU 2309 M
45	100	36	160	153	7500	8500	1.3	NU 2309 T	NU 2309 ECP	NU 2309 E.TVP2	NU 2309 T
45	100	36	160	153	7500	13000	1.35	NUP 2309 M	NUP 2309 ECML	NUP 2309 E.M1	NUP 2309 M
45	100	36	160	153	7500	8500	1.35	NUP 2309 T	NUP 2309 ECP	NUP 2309 E.TVP2	NUP 2309 T
45	120	29	106	102	6700	7500	1.7	NJ 409	NJ 409	NJ 409	NJ 409
45	120	29	106	102	6700	10000	1.83	NJ 409 M	NJ 409 MAS	NJ 409 E.M1	NJ 409 M
45	120	29	106	102	6700	7500	1.65	NU 409	NU 409	NU 409	NU 409
50	80	16	46.8	56	9000	9500	0.35	NU 1010 T	NU 1010 ECP	NU 1010 E.TVP2	NU 1010 T
50	80	16	30.8	34.5	10000	15000	0.31	NU 1010 M	NU 1010 ML	NU 1010 E.M1	NU 1010 M
50	90	20	73.5	69.5	8500	9000	0.48	N 210 T	N 210 ECP	N 210 E.TVP2	N 210 T
50	90	20	73.5	69.5	8500	9000	0.5	NJ 210 W	NJ 210 ECJ	NJ 210 E1	NJ 210 W
50	90	20	73.5	69.5	8500	9000	0.5	NJ 210 M	NJ 210 ECM	NJ 210 E.M1	NJ 210 M
50	90	20	73.5	69.5	8500	14000	0.5	NJ 210 M	NJ 210 ECML	NJ 210 E.M1	NJ 210 M
50	90	20	73.5	69.5	8500	9000	0.5	NJ 210 T	NJ 210 ECP	NJ 210 E.TVP2	NJ 210 T
50	90	20	73.5	69.5	8500	9000	0.49	NU 210 W	NU 210 ECJ	NU 210 E1	NU 210 W
50	90	20	73.5	69.5	8500	9000	0.57	NU 210 M	NU 210 ECM	NU 210 E.M1	NU 210 M
50	90	20	73.5	69.5	8500	14000	0.57	NU 210 M	NU 210 ECML	NU 210 E.M1	NU 210 M
50	90	20	73.5	69.5	8500	9000	0.49	NU 210 T	NU 210 ECP	NU 210 E.TVP2	NU 210 T
50	90	20	73.5	69.5	8500	9000	0.51	NUP 210 W	NUP 210 ECJ	NUP 210 E1	NUP 210 W
50	90	20	73.5	69.5	8500	14000	0.51	NUP 210 M	NUP 210 ECML	NUP 210 E.M1	NUP 210 M
50	90	20	73.5	69.5	8500	9000	0.51	NUP 210 T	NUP 210 ECP	NUP 210 E.TVP2	NUP 210 T
50	90	23	90	88	8500	9000	0.61	NJ 2210 W	NJ 2210 ECJ	NJ 2210 E1	NJ 2210 W
50	90	23	90	88	8500	14000	0.62	NJ 2210 M	NJ 2210 ECML	NJ 2210 E.M1	NJ 2210 M
50	90	23	90	88	8500	9000	0.59	NJ 2210 T	NJ 2210 ECP	NJ 2210 E.TVP2	NJ 2210 T
50	90	23	90	88	8500	9000	0.59	NJ 2210 T	NJ 2210 ECPH	NJ 2210 E.TVP2	NJ 2210 T
50	90	23	90	88	8500	9000	0.56	NU 2210 W	NU 2210 ECJ	NU 2210 E1	NU 2210 W
50	90	23	90	88	8500	9000	0.6	NU 2210 M	NU 2210 ECM	NU 2210 E.M1	NU 2210 M
50	90	23	90	88	8500	14000	0.6	NU 2210 M	NU 2210 ECML	NU 2210 E.M1	NU 2210 M
50	90	23	90	88	8500	9000	0.56	NU 2210 T	NU 2210 ECP	NU 2210 E.TVP2	NU 2210 T
50	90	23	73.5	69.5	8500	9000	0.49	NUB 210 T	NUB 210 ECP	NUB 210 E.TVP2	NUB 210 T
50	90	23	90	88	8500	9000	0.59	NUP 2210 W	NUP 2210 ECJ	NUP 2210 E1	NUP 2210 W
50	90	23	90	88	8500	14000	0.63	NUP 2210 M	NUP 2210 ECML	NUP 2210 E.M1	NUP 2210 M
50	90	23	90	88	8500	9000	0.59	NUP 2210 T	NUP 2210 ECNP	NUP 2210 E.TVP2	NUP 2210 T
50	90	23	90	88	8500	9000	0.59	NUP 2210 T	NUP 2210 ECP	NUP 2210 E.TVP2	NUP 2210 T
50	110	27	127	112	6700	8000	1.15	N 310 M	N 310 ECM	N 310 E.M1	N 310 M
50	110	27	127	112	6700	8000	1.15	N 310 T	N 310 ECP	N 310 E.TVP2	N 310 T
50	110	27	127	112	6700	8000	1.2	NF 310 T	NF 310 ECP	NF 310 E.TVP2	NF 310 T
50	110	27	127	112	6700	8000	1.16	NJ 310 W	NJ 310 ECJ	NJ 310 E1	NJ 310 W
50	110	27	127	112	6700	8000	1.26	NJ 310 M	NJ 310 ECM	NJ 310 E.M1	NJ 310 M
50	110	27	127	112	6700	12000	1.26	NJ 310 M	NJ 310 ECML	NJ 310 E.M1	NJ 310 M
50	110	27	127	112	6700	8000	1.15	NJ 310 T	NJ 310 ECP	NJ 310 E.TVP2	NJ 310 T
50	110	27	127	112	6700	8000	1.15	NJ 310 T	NJ 310 ECPH	NJ 310 E.TVP2	NJ 310 T
50	110	27	127	112	6700	8000	1.16	NU 310 W	NU 310 ECJ	NU 310 E1	NU 310 W
50	110	27	127	112	6700	8000	1.24	NU 310 M	NU 310 ECM	NU 310 E.M1	NU 310 M
50	110	27	127	112	6700	12000	1.24	NU 310 M	NU 310 ECML	NU 310 E.M1	NU 310 M
50	110	27	127	112	6700	8000	1.15	NU 310 T	NU 310 ECP	NU 310 E.TVP2	NU 310 T
50	110	27	127	112	6700	8000	1.2	NUP 310 W	NUP 310 ECJ	NUP 310 E1	NUP 310 W
50	110	27	127	112	6700	8000	1.2	NUP 310 M	NUP 310 ECM	NUP 310 E.M1	NUP 310 M



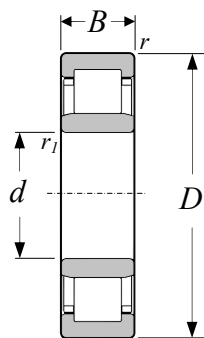
CYLINDRICAL ROLLER BEARINGS
Single Row

Table 74
Bore Diameter 50mm - 55mm

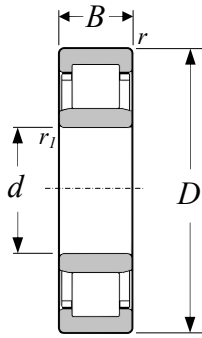
Principal Dimensions			Basic Load Ratings		Speed Ratings		Mass	Designations			
d	D	B	Dynamic	Static	Ref. Speed	Limiting Speed		Local	SKF	FAG	NSK
mm			C	C ₀	r/min		kg				
50	110	27	127	112	6700	12000	1.2	NUP 310 M	NUP 310 ECML	NUP 310 E.M1	NUP 310 M
50	110	27	127	112	6700	8000	1.2	NUP 310 T	NUP 310 ECP	NUP 310 E.TVP2	NUP 310 T
50	110	40	186	186	6700	12000	2.05	NJ 2310 M	NJ 2310 ECML	NJ 2310 E.M1	NJ 2310 M
50	110	40	186	186	6700	8000	1.75	NJ 2310 T	NJ 2310 ECP	NJ 2310 E.TVP2	NJ 2310 T
50	110	40	186	186	6700	12000	2	NU 2310 M	NU 2310 ECML	NU 2310 E.M1	NU 2310 M
50	110	40	186	186	6700	8000	1.7	NU 2310 T	NU 2310 ECP	NU 2310 E.TVP2	NU 2310 T
50	110	40	186	186	6700	12000	1.8	NUP 2310 M	NUP 2310 ECML	NUP 2310 E.M1	NUP 2310 M
50	110	40	186	186	6700	8000	1.8	NUP 2310 T	NUP 2310 ECP	NUP 2310 E.TVP2	NUP 2310 T
50	130	31	130	127	6000	7000	2.05	NJ 410	NJ 410	NJ 410	NJ 410
50	130	31	130	127	6000	7000	2	NU 410	NU 410	NU 410	NU 410
55	90	18	57.2	69.5	8000	8500	0.42	NJ 1011 T	NJ 1011 ECP	NJ 1011 E.TVP2	NJ 1011 T
55	90	18	57.2	69.5	8000	8500	0.4	NU 1011 T	NU 1011 ECP	NU 1011 E.TVP2	NU 1011 T
55	100	21	96.5	95	7500	8000	0.66	N 211 M	N 211 ECM	N 211 E.M1	N 211 M
55	100	21	96.5	95	7500	8000	0.66	N 211 T	N 211 ECP	N 211 E.TVP2	N 211 T
55	100	21	96.5	95	7500	8000	0.73	NF 211 M	NF 211 ECMB	NF 211 E.M1	NF 211 M
55	100	21	96.5	95	7500	8000	0.69	NJ 211 W	NJ 211 ECJ	NJ 211 E1	NJ 211 W
55	100	21	96.5	95	7500	8000	0.73	NJ 211 M	NJ 211 ECM	NJ 211 E.M1	NJ 211 M
55	100	21	96.5	95	7500	8000	0.73	NJ 211 M	NJ 211 ECML	NJ 211 E.M1	NJ 211 M
55	100	21	96.5	95	7500	8000	0.67	NJ 211 T	NJ 211 ECP	NJ 211 E.TVP2	NJ 211 T
55	100	21	96.5	95	7500	8000	0.69	NU 211 W	NU 211 ECJ	NU 211 E1	NU 211 W
55	100	21	96.5	95	7500	8000	0.72	NU 211 M	NU 211 ECM	NU 211 E.M1	NU 211 M
55	100	21	96.5	95	7500	13000	0.72	NU 211 M	NU 211 ECML	NU 211 E.M1	NU 211 M
55	100	21	96.5	95	7500	8000	0.67	NU 211 T	NU 211 ECP	NU 211 E.TVP2	NU 211 T
55	100	21	96.5	95	7500	8000	0.69	NUP 211 W	NUP 211 ECJ	NUP 211 E1	NUP 211 W
55	100	21	96.5	95	7500	8000	0.69	NUP 211 M	NUP 211 ECM	NUP 211 E.M1	NUP 211 M
55	100	21	96.5	95	7500	13000	0.69	NUP 211 M	NUP 211 ECML	NUP 211 E.M1	NUP 211 M
55	100	21	96.5	95	7500	8000	0.69	NUP 211 T	NUP 211 ECP	NUP 211 E.TVP2	NUP 211 T
55	100	25	114	118	7500	8000	0.81	NJ 2211 W	NJ 2211 ECJ	NJ 2211 E1	NJ 2211 W
55	100	25	114	118	7500	8000	0.87	NJ 2211 M	NJ 2211 ECM	NJ 2211 E.M1	NJ 2211 M
55	100	25	114	118	7500	13000	0.87	NJ 2211 M	NJ 2211 ECML	NJ 2211 E.M1	NJ 2211 M
55	100	25	114	118	7500	8000	0.81	NJ 2211 T	NJ 2211 ECP	NJ 2211 E.TVP2	NJ 2211 T
55	100	25	114	118	7500	8000	0.79	NU 2211 W	NU 2211 ECJ	NU 2211 E1	NU 2211 W
55	100	25	114	118	7500	13000	0.85	NU 2211 M	NU 2211 ECML	NU 2211 E.M1	NU 2211 M
55	100	25	114	118	7500	8000	0.79	NU 2211 T	NU 2211 ECP	NU 2211 E.TVP2	NU 2211 T
55	100	25	114	118	7500	8000	0.82	NUP 2211 W	NUP 2211 ECJ	NUP 2211 E1	NUP 2211 W
55	100	25	114	118	7500	13000	0.82	NUP 2211 M	NUP 2211 ECML	NUP 2211 E.M1	NUP 2211 M
55	100	25	114	118	7500	8000	0.82	NUP 2211 T	NUP 2211 ECP	NUP 2211 E.TVP2	NUP 2211 T
55	120	29	156	143	6000	7000	1.57	N 311 M	N 311 ECM	N 311 E.M1	N 311 M
55	120	29	156	143	6000	9500	1.57	N 311 M	N 311 ECMB	N 311 E.M1	N 311 M
55	120	29	156	143	6000	7000	1.45	N 311 T	N 311 ECP	N 311 E.TVP2	N 311 T
55	120	29	156	143	6000	7000	1.5	NJ 311 W	NJ 311 ECJ	NJ 311 E1	NJ 311 W
55	120	29	156	143	6000	7000	1.58	NJ 311 M	NJ 311 ECM	NJ 311 E.M1	NJ 311 M
55	120	29	156	143	6000	11000	1.58	NJ 311 M	NJ 311 ECML	NJ 311 E.M1	NJ 311 M
55	120	29	156	143	6000	7000	1.5	NJ 311 T	NJ 311 ECP	NJ 311 E.TVP2	NJ 311 T
55	120	29	156	143	6000	7000	1.45	NU 311 W	NU 311 ECJ	NU 311 E1	NU 311 W
55	120	29	156	143	6000	7000	1.57	NU 311 M	NU 311 ECM	NU 311 E.M1	NU 311 M
55	120	29	156	143	6000	11000	1.55	NU 311 M	NU 311 ECML	NU 311 E.M1	NU 311 M
55	120	29	156	143	6000	7000	1.45	NU 311 M	NU 311 ECNJ	NU 311 E1	NU 311 M
55	120	29	156	143	6000	7000	1.45	NU 311 T	NU 311 ECP	NU 311 E.TVP2	NU 311 T
55	120	29	156	143	6000	7000	1.55	NUP 311 W	NUP 311 ECJ	NUP 311 E1	NUP 311 W

CYLINDRICAL ROLLER BEARINGS
Single Row

Table 75
Bore Diameter 55mm - 60mm



Principal Dimensions			Basic Load Ratings		Speed Ratings		Mass	Designations			
d	D	B	Dynamic	Static	Ref. Speed	Limiting Speed		Local	SKF	FAG	NSK
mm			C	C ₀	r/min		kg				
55	120	29	156	143	6000	7000	1.55	NUP 311 M	NUP 311 ECM	NUP 311 E.M1	NUP 311 M
55	120	29	156	143	6000	11000	1.55	NUP 311 M	NUP 311 ECML	NUP 311 E.M1	NUP 311 M
55	120	29	156	143	6000	7000	1.55	NUP 311 T	NUP 311 ECP	NUP 311 E.TVP2	NUP 311 T
55	120	43	232	232	6000	11000	2.48	NJ 2311 M	NJ 2311 ECML	NJ 2311 E.M1	NJ 2311 M
55	120	43	232	232	6000	7000	2.3	NJ 2311 T	NJ 2311 ECP	NJ 2311 E.TVP2	NJ 2311 T
55	120	43	232	232	6000	11000	2.43	NU 2311 M	NU 2311 ECML	NU 2311 E.M1	NU 2311 M
55	120	43	232	232	6000	7000	2.25	NU 2311 T	NU 2311 ECP	NU 2311 E.TVP2	NU 2311 T
55	120	43	232	232	6000	11000	2.43	NUP 2311 M	NUP 2311 ECML	NUP 2311 E.M1	NUP 2311 M
55	120	43	232	232	6000	7000	2.35	NUP 2311 T	NUP 2311 ECP	NUP 2311 E.TVP2	NUP 2311 T
55	140	33	142	140	5600	6300	2.55	NJ 411	NJ 411	NJ 411	NJ 411
55	140	33	142	140	5600	6300	2.5	NU 411	NU 411	NU 411	NU 411
60	95	18	37.4	44	8000	13000	0.48	NU 1012 M	NU 1012 ML	NU 1012 E.M1	NU 1012 M
60	110	22	108	102	6700	7500	0.81	N 212 M	N 212 ECM	N 212 E.M1	N 212 M
60	110	22	108	102	6700	7500	0.81	N 212 T	N 212 ECP	N 212 E.TVP2	N 212 T
60	110	22	108	102	6700	7500	0.82	NJ 212 W	NJ 212 ECJ	NJ 212 E1	NJ 212 W
60	110	22	108	102	6700	7500	0.83	NJ 212 M	NJ 212 ECM	NJ 212 E.M1	NJ 212 M
60	110	22	108	102	6700	11000	0.83	NJ 212 M	NJ 212 ECML	NJ 212 E.M1	NJ 212 M
60	110	22	108	102	6700	7500	0.83	NJ 212 T	NJ 212 ECP	NJ 212 E.TVP2	NJ 212 T
60	110	22	108	102	6700	7500	0.83	NU 212 W	NU 212 ECJ	NU 212 E1	NU 212 W
60	110	22	108	102	6700	7500	0.87	NU 212 M	NU 212 ECM	NU 212 E.M1	NU 212 M
60	110	22	108	102	6700	11000	0.87	NU 212 M	NU 212 ECML	NU 212 E.M1	NU 212 M
60	110	22	108	102	6700	7500	0.81	NU 212 T	NU 212 ECP	NU 212 E.TVP2	NU 212 T
60	110	22	108	102	6700	7500	0.88	NUP 212 W	NUP 212 ECJ	NUP 212 E1	NUP 212 W
60	110	22	108	102	6700	7500	0.86	NUP 212 M	NUP 212 ECM	NUP 212 E.M1	NUP 212 M
60	110	22	108	102	6700	11000	0.86	NUP 212 M	NUP 212 ECML	NUP 212 E.M1	NUP 212 M
60	110	22	108	102	6700	7500	0.86	NUP 212 T	NUP 212 ECP	NUP 212 E.TVP2	NUP 212 T
60	110	28	146	153	6700	7500	1.15	NJ 2212 W	NJ 2212 ECJ	NJ 2212 E1	NJ 2212 W
60	110	28	146	153	6700	7500	1.15	NJ 2212 M	NJ 2212 ECM	NJ 2212 E.M1	NJ 2212 M
60	110	28	146	153	6700	11000	1.2	NJ 2212 M	NJ 2212 ECML	NJ 2212 E.M1	NJ 2212 M
60	110	28	146	153	6700	7500	1.15	NJ 2212 T	NJ 2212 ECP	NJ 2212 E.TVP2	NJ 2212 T
60	110	28	146	153	6700	7500	1.1	NU 2212 W	NU 2212 ECJ	NU 2212 E1	NU 2212 W
60	110	28	146	153	6700	7500	1.1	NU 2212 M	NU 2212 ECM	NU 2212 E.M1	NU 2212 M
60	110	28	146	153	6700	11000	1.1	NU 2212 M	NU 2212 ECML	NU 2212 E.M1	NU 2212 M
60	110	28	146	153	6700	7500	1.1	NU 2212 T	NU 2212 ECP	NU 2212 E.TVP2	NU 2212 T
60	110	28	146	153	6700	7500	1.15	NUP 2212 W	NUP 2212 ECJ	NUP 2212 E1	NUP 2212 W
60	110	28	146	153	6700	7500	1.15	NUP 2212 M	NUP 2212 ECM	NUP 2212 E.M1	NUP 2212 M
60	110	28	146	153	6700	11000	1.15	NUP 2212 M	NUP 2212 ECML	NUP 2212 E.M1	NUP 2212 M
60	110	28	146	153	6700	7500	1.15	NUP 2212 T	NUP 2212 ECP	NUP 2212 E.TVP2	NUP 2212 T
60	130	31	173	160	5600	6700	1.8	N 312 W	N 312 ECJ	N 312 E1	N 312 W
60	130	31	173	160	5600	6700	1.8	N 312 M	N 312 ECM	N 312 E.M1	N 312 M
60	130	31	173	160	5600	6700	1.8	N 312 T	N 312 ECP	N 312 E.TVP2	N 312 T
60	130	31	173	160	5600	6700	1.9	NJ 312 W	NJ 312 ECJ	NJ 312 E1	NJ 312 W
60	130	31	173	160	5600	6700	2	NJ 312 M	NJ 312 ECM	NJ 312 E.M1	NJ 312 M
60	130	31	173	160	5600	10000	2	NJ 312 M	NJ 312 ECML	NJ 312 E.M1	NJ 312 M
60	130	31	173	160	5600	6700	1.9	NJ 312 T	NJ 312 ECP	NJ 312 E.TVP2	NJ 312 T
60	130	31	173	160	5600	6700	1.8	NU 312 W	NU 312 ECJ	NU 312 E1	NU 312 W
60	130	31	173	160	5600	6700	1.95	NU 312 M	NU 312 ECM	NU 312 E.M1	NU 312 M
60	130	31	173	160	5600	10000	1.95	NU 312 M	NU 312 ECML	NU 312 E.M1	NU 312 M
60	130	31	173	160	5600	6700	1.8	NU 312 T	NU 312 ECP	NU 312 E.TVP2	NU 312 T
60	130	31	173	160	5600	6700	1.95	NUP 312 W	NUP 312 ECJ	NUP 312 E1	NUP 312 W



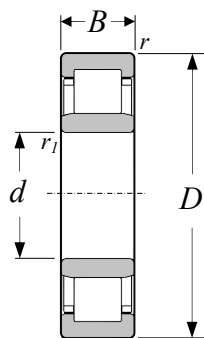
CYLINDRICAL ROLLER BEARINGS
Single Row

Table 76
Bore Diameter 60mm - 65mm

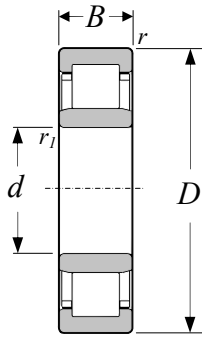
Principal Dimensions			Basic Load Ratings		Speed Ratings		Mass	Designations			
d	D	B	Dynamic	Static	Ref. Speed	Limiting Speed		Local	SKF	FAG	NSK
mm			C	C ₀	r/min		kg				
60	130	31	173	160	5600	6700	1.95	NUP 312 M	NUP 312 ECM	NUP 312 E.M1	NUP 312 M
60	130	31	173	160	5600	10000	1.95	NUP 312 M	NUP 312 ECML	NUP 312 E.M1	NUP 312 M
60	130	31	173	160	5600	6700	1.95	NUP 312 T	NUP 312 ECP	NUP 312 E.TVP2	NUP 312 T
60	130	46	260	265	5600	6700	2.8	NJ 2312 M	NJ 2312 ECM	NJ 2312 E.M1	NJ 2312 M
60	130	46	260	265	5600	10000	3.2	NJ 2312 M	NJ 2312 ECML	NJ 2312 E.M1	NJ 2312 M
60	130	46	260	265	5600	10000	3.2	NJ 2312 M	NJ 2312 ECN1ML	NJ 2312 E.M1	NJ 2312 M
60	130	46	260	265	5600	6700	2.8	NJ 2312 T	NJ 2312 ECP	NJ 2312 E.TVP2	NJ 2312 T
60	130	46	260	265	5600	6700	3.15	NU 2312 M	NU 2312 ECM	NU 2312 E.M1	NU 2312 M
60	130	46	260	265	5600	10000	3.15	NU 2312 M	NU 2312 ECML	NU 2312 E.M1	NU 2312 M
60	130	46	260	265	5600	6700	2.75	NU 2312 T	NU 2312 ECP	NU 2312 E.TVP2	NU 2312 T
60	130	46	260	265	5600	10000	2.85	NUP 2312 M	NUP 2312 ECML	NUP 2312 E.M1	NUP 2312 M
60	130	46	260	265	5600	6700	2.85	NUP 2312 T	NUP 2312 ECP	NUP 2312 E.TVP2	NUP 2312 T
60	150	35	168	173	5000	6000	3.1	NJ 412	NJ 412	NJ 412	NJ 412
60	150	35	168	173	5000	6000	3	NU 412	NU 412	NU 412	NU 412
65	100	18	62.7	81.5	7000	7500	0.45	NU 1013 T	NU 1013 ECP	NU 1013 E.TVP2	NU 1013 T
65	100	18	38	46.5	7500	12000	0.51	NU 1013 M	NU 1013 ML	NU 1013 E.M1	NU 1013 M
65	100	26	105	146	6300	7500	0.7	NJ 3013 T	NJ 3013 ECP	NJ 3013 E.TVP2	NJ 3013 T
65	120	23	122	118	6300	6700	1.05	N 213 T	N 213 ECP	N 213 E.TVP2	N 213 T
65	120	23	122	118	6300	6700	1.07	NJ 213 W	NJ 213 ECJ	NJ 213 E1	NJ 213 W
65	120	23	122	118	6300	6700	1.07	NJ 213 M	NJ 213 ECM	NJ 213 E.M1	NJ 213 M
65	120	23	122	118	6300	10000	1.07	NJ 213 M	NJ 213 ECML	NJ 213 E.M1	NJ 213 M
65	120	23	122	118	6300	6700	1.07	NJ 213 T	NJ 213 ECP	NJ 213 E.TVP2	NJ 213 T
65	120	23	122	118	6300	6700	1.1	NU 213 W	NU 213 ECJ	NU 213 E1	NU 213 W
65	120	23	122	118	6300	6700	1.16	NU 213 M	NU 213 ECM	NU 213 E.M1	NU 213 M
65	120	23	122	118	6300	10000	1.16	NU 213 M	NU 213 ECML	NU 213 E.M1	NU 213 M
65	120	23	122	118	6300	6700	1.05	NU 213 T	NU 213 ECP	NU 213 E.TVP2	NU 213 T
65	120	23	122	118	6300	6700	1.1	NUP 213 W	NUP 213 ECJ	NUP 213 E1	NUP 213 W
65	120	23	122	118	6300	10000	1.1	NUP 213 M	NUP 213 ECML	NUP 213 E.M1	NUP 213 M
65	120	23	122	118	6300	6700	1.1	NUP 213 T	NUP 213 ECP	NUP 213 E.TVP2	NUP 213 T
65	120	31	170	180	6300	6700	1.45	NJ 2213 W	NJ 2213 ECJ	NJ 2213 E1	NJ 2213 W
65	120	31	170	180	6300	10000	1.45	NJ 2213 M	NJ 2213 ECML	NJ 2213 E.M1	NJ 2213 M
65	120	31	170	180	6300	6700	1.45	NJ 2213 T	NJ 2213 ECP	NJ 2213 E.TVP2	NJ 2213 T
65	120	31	170	180	6300	6700	1.4	NU 2213 W	NU 2213 ECJ	NU 2213 E1	NU 2213 W
65	120	31	170	180	6300	10000	1.4	NU 2213 M	NU 2213 ECML	NU 2213 E.M1	NU 2213 M
65	120	31	170	180	6300	6700	1.4	NU 2213 T	NU 2213 ECP	NU 2213 E.TVP2	NU 2213 T
65	120	31	170	180	6300	6700	1.5	NUP 2213 T	NUP 2213 ECP	NUP 2213 E.TVP2	NUP 2213 T
65	140	33	212	196	5300	6000	2.25	N 313 M	N 313 ECM	N 313 E.M1	N 313 M
65	140	33	212	196	5300	6000	2.25	N 313 T	N 313 ECP	N 313 E.TVP2	N 313 T
65	140	33	212	196	5300	6000	2.33	NJ 313 W	NJ 313 ECJ	NJ 313 E1	NJ 313 W
65	140	33	212	196	5300	6000	2.5	NJ 313 M	NJ 313 ECM	NJ 313 E.M1	NJ 313 M
65	140	33	212	196	5300	9500	2.5	NJ 313 M	NJ 313 ECML	NJ 313 E.M1	NJ 313 M
65	140	33	212	196	5300	6000	2.3	NJ 313 T	NJ 313 ECP	NJ 313 E.TVP2	NJ 313 T
65	140	33	212	196	5300	6000	2.28	NU 313 W	NU 313 ECJ	NU 313 E1	NU 313 W
65	140	33	212	196	5300	6000	2.43	NU 313 M	NU 313 ECM	NU 313 E.M1	NU 313 M
65	140	33	212	196	5300	9500	2.43	NU 313 M	NU 313 ECML	NU 313 E.M1	NU 313 M
65	140	33	212	196	5300	6000	2.25	NU 313 T	NU 313 ECP	NU 313 E.TVP2	NU 313 T
65	140	33	212	196	5300	6000	2.35	NUP 313 W	NUP 313 ECJ	NUP 313 E1	NUP 313 W
65	140	33	212	196	5300	9500	2.35	NUP 313 M	NUP 313 ECML	NUP 313 E.M1	NUP 313 M
65	140	33	212	196	5300	6000	2.35	NUP 313 T	NUP 313 ECP	NUP 313 E.TVP2	NUP 313 T
65	140	48	285	290	5300	9500	3.6	NJ 2313 M	NJ 2313 ECML	NJ 2313 E.M1	NJ 2313 M

CYLINDRICAL ROLLER BEARINGS
Single Row

Table 77
Bore Diameter 65mm - 70mm



Principal Dimensions			Basic Load Ratings		Speed Ratings		Mass	Designations				
d	D	B	Dynamic	Static	Ref. Speed	Limiting Speed		Local		SKF	FAG	NSK
mm			C	C ₀	r/min		kg					
65	140	48	285	290	5300	6000	3.35		NJ 2313 T	NJ 2313 ECP	NJ 2313 E.TVP2	NJ 2313 T
65	140	48	285	290	5300	9500	3.4		NU 2313 M	NU 2313 ECML	NU 2313 E.M1	NU 2313 M
65	140	48	285	290	5300	6000	3.3		NU 2313 T	NU 2313 ECP	NU 2313 E.TVP2	NU 2313 T
65	140	48	285	290	5300	9500	3.45		NUP 2313 M	NUP 2313 ECML	NUP 2313 E.M1	NUP 2313 M
65	140	48	285	290	5300	6000	3.45		NUP 2313 T	NUP 2313 ECP	NUP 2313 E.TVP2	NUP 2313 T
65	160	37	183	190	4800	5600	3.65		NJ 413	NJ 413	NJ 413	NJ 413
65	160	37	183	190	4800	5600	3.95		NJ 413 M	NJ 413 M	NJ 413 E.M1	NJ 413 M
65	160	37	183	190	4800	5600	3.6		NU 413	NU 413	NU 413	NU 413
70	110	20	76.5	93	6300	7000	0.62		NU 1014 T	NU 1014 ECP	NU 1014 E.TVP2	NU 1014 T
70	110	20	56.1	67.2	7000	11000	0.8		NU 1014 M	NU 1014 ML	NU 1014 E.M1	NU 1014 M
70	125	24	137	137	6000	6300	1.15		N 214 T	N 214 ECP	N 214 E.TVP2	N 214 T
70	125	24	137	137	6000	6300	1.2		NJ 214 W	NJ 214 ECJ	NJ 214 E1	NJ 214 W
70	125	24	137	137	6000	6300	1.25		NJ 214 M	NJ 214 ECM	NJ 214 E.M1	NJ 214 M
70	125	24	137	137	6000	10000	1.25		NJ 214 M	NJ 214 ECML	NJ 214 E.M1	NJ 214 M
70	125	24	137	137	6000	6300	1.15		NJ 214 T	NJ 214 ECP	NJ 214 E.TVP2	NJ 214 T
70	125	24	137	137	6000	6300	1.2		NU 214 W	NU 214 ECJ	NU 214 E1	NU 214 W
70	125	24	137	137	6000	6300	1.25		NU 214 M	NU 214 ECM	NU 214 E.M1	NU 214 M
70	125	24	137	137	6000	10000	1.25		NU 214 M	NU 214 ECML	NU 214 E.M1	NU 214 M
70	125	24	137	137	6000	6300	1.15		NU 214 T	NU 214 ECP	NU 214 E.TVP2	NU 214 T
70	125	24	137	137	6000	6300	1.2		NUP 214 M	NUP 214 ECM	NUP 214 E.M1	NUP 214 M
70	125	24	137	137	6000	10000	1.2		NUP 214 M	NUP 214 ECML	NUP 214 E.M1	NUP 214 M
70	125	24	137	137	6000	6300	1.2		NUP 214 T	NUP 214 ECP	NUP 214 E.TVP2	NUP 214 T
70	125	31	180	193	6000	6300	1.7		NJ 2214 M	NJ 2214 ECM	NJ 2214 E.M1	NJ 2214 M
70	125	31	180	193	6000	10000	1.7		NJ 2214 M	NJ 2214 ECML	NJ 2214 E.M1	NJ 2214 M
70	125	31	180	193	6000	6300	1.55		NJ 2214 T	NJ 2214 ECP	NJ 2214 E.TVP2	NJ 2214 T
70	125	31	180	193	6000	6300	1.55		NU 2214 W	NU 2214 ECJ	NU 2214 E1	NU 2214 W
70	125	31	180	193	6000	6300	1.55		NU 2214 M	NU 2214 ECM	NU 2214 E.M1	NU 2214 M
70	125	31	180	193	6000	10000	1.55		NU 2214 M	NU 2214 ECML	NU 2214 E.M1	NU 2214 M
70	125	31	180	193	6000	6300	1.5		NU 2214 T	NU 2214 ECP	NU 2214 E.TVP2	NU 2214 T
70	125	31	180	193	6000	6300	1.75		NUP 2214 M	NUP 2214 ECM	NUP 2214 E.M1	NUP 2214 M
70	125	31	180	193	6000	10000	1.75		NUP 2214 M	NUP 2214 ECML	NUP 2214 E.M1	NUP 2214 M
70	125	31	180	193	6000	6300	1.75		NUP 2214 M	NUP 2214 ECNM	NUP 2214 E.M1	NUP 2214 M
70	125	31	180	193	6000	6300	1.55		NUP 2214 T	NUP 2214 ECP	NUP 2214 E.TVP2	NUP 2214 T
70	150	35	236	228	4800	5600	2.75		N 314 M	N 314 ECM	N 314 E.M1	N 314 M
70	150	35	236	228	4800	5600	2.75		N 314 M	N 314 ECNJ	N 314 E1	N 314 M
70	150	35	236	228	4800	5600	2.75		N 314 T	N 314 ECP	N 314 E.TVP2	N 314 T
70	150	35	236	228	4800	5600	2.8		NJ 314 W	NJ 314 ECJ	NJ 314 E1	NJ 314 W
70	150	35	236	228	4800	5600	3.05		NJ 314 M	NJ 314 ECM	NJ 314 E.M1	NJ 314 M
70	150	35	236	228	4800	8500	3.05		NJ 314 M	NJ 314 ECML	NJ 314 E.M1	NJ 314 M
70	150	35	236	228	4800	5600	2.8		NJ 314 T	NJ 314 ECP	NJ 314 E.TVP2	NJ 314 T
70	150	35	236	228	4800	5600	2.75		NU 314 W	NU 314 ECJ	NU 314 E1	NU 314 W
70	150	35	236	228	4800	5600	3		NU 314 M	NU 314 ECM	NU 314 E.M1	NU 314 M
70	150	35	236	228	4800	8500	2.75		NU 314 M	NU 314 ECML	NU 314 E.M1	NU 314 M
70	150	35	236	228	4800	5600	2.75		NU 314 T	NU 314 ECP	NU 314 E.TVP2	NU 314 T
70	150	35	236	228	4800	5600	2.85		NUP 314 M	NUP 314 ECM	NUP 314 E.M1	NUP 314 M
70	150	35	236	228	4800	8500	2.85		NUP 314 M	NUP 314 ECML	NUP 314 E.M1	NUP 314 M
70	150	35	236	228	4800	5600	2.85		NUP 314 T	NUP 314 ECNP	NUP 314 E.TVP2	NUP 314 T
70	150	35	236	228	4800	5600	2.85		NUP 314 T	NUP 314 ECP	NUP 314 E.TVP2	NUP 314 T
70	150	51	315	325	4800	8500	4.4		NJ 2314 M	NJ 2314 ECML	NJ 2314 E.M1	NJ 2314 M
70	150	51	315	325	4800	5600	4.05		NJ 2314 T	NJ 2314 ECP	NJ 2314 E.TVP2	NJ 2314 T



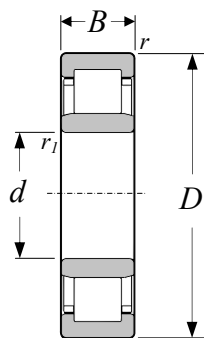
CYLINDRICAL ROLLER BEARINGS
Single Row

Table 78
Bore Diameter 70mm - 75mm

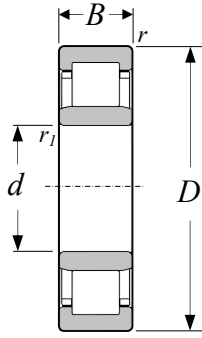
Principal Dimensions			Basic Load Ratings		Speed Ratings		Mass	Designations			
d	D	B	Dynamic	Static	Ref. Speed	Limiting Speed		Local	SKF	FAG	NSK
mm			C	C ₀	r/min						
70	150	51	315	325	4800	8500	4.35	NU 2314 M	NU 2314 ECML	NU 2314 E.M1	NU 2314 M
70	150	51	315	325	4800	5600	4	NU 2314 T	NU 2314 ECP	NU 2314 E.TVP2	NU 2314 T
70	150	51	315	325	4800	8500	4.15	NUP 2314 M	NUP 2314 ECML	NUP 2314 E.M1	NUP 2314 M
70	150	51	315	325	4800	5600	4.15	NUP 2314 T	NUP 2314 ECP	NUP 2314 E.TVP2	NUP 2314 T
70	180	42	229	240	4300	5000	5.2	N 414	N 414	N 414	N 414
70	180	42	229	240	4300	5000	5.35	NJ 414	NJ 414	NJ 414	NJ 414
70	180	42	229	240	4300	5000	5.25	NU 414	NU 414	NU 414	NU 414
70	180	42	229	240	4300	5000	5.25	NU 414 M	NU 414 MA	NU 414 E.M1	NU 414 M
75	115	20	58.3	71	6700	10000	0.74	NU 1015 M	NU 1015 ML	NU 1015 E.M1	NU 1015 M
75	130	25	150	156	5600	6000	1.25	N 215 T	N 215 ECP	N 215 E.TVP2	N 215 T
75	130	25	150	156	5600	6000	1.4	NJ 215 W	NJ 215 ECJ	NJ 215 E1	NJ 215 W
75	130	25	150	156	5600	6000	1.3	NJ 215 M	NJ 215 ECM	NJ 215 E.M1	NJ 215 M
75	130	25	150	156	5600	9500	1.4	NJ 215 M	NJ 215 ECML	NJ 215 E.M1	NJ 215 M
75	130	25	150	156	5600	6000	1.3	NJ 215 T	NJ 215 ECP	NJ 215 E.TVP2	NJ 215 T
75	130	25	150	156	5600	6000	1.27	NU 215 W	NU 215 ECJ	NU 215 E1	NU 215 W
75	130	25	150	156	5600	6000	1.35	NU 215 M	NU 215 ECM	NU 215 E.M1	NU 215 M
75	130	25	150	156	5600	9500	1.35	NU 215 M	NU 215 ECML	NU 215 E.M1	NU 215 M
75	130	25	150	156	5600	6000	1.25	NU 215 T	NU 215 ECP	NU 215 E.TVP2	NU 215 T
75	130	25	150	156	5600	6000	1.3	NUP 215 W	NUP 215 ECJ	NUP 215 E1	NUP 215 W
75	130	25	150	156	5600	6000	1.3	NUP 215 M	NUP 215 ECM	NUP 215 E.M1	NUP 215 M
75	130	25	150	156	5600	9500	1.3	NUP 215 M	NUP 215 ECML	NUP 215 E.M1	NUP 215 M
75	130	25	150	156	5600	6000	1.3	NUP 215 T	NUP 215 ECP	NUP 215 E.TVP2	NUP 215 T
75	130	31	186	208	5600	9500	1.6	NJ 2215 W	NJ 2215 ECJ	NJ 2215 E1	NJ 2215 W
75	130	31	186	208	5600	6000	1.6	NJ 2215 M	NJ 2215 ECML	NJ 2215 E.M1	NJ 2215 M
75	130	31	186	208	5600	6000	1.6	NJ 2215 T	NJ 2215 ECP	NJ 2215 E.TVP2	NJ 2215 T
75	130	31	186	208	5600	6000	1.6	NU 2215 W	NU 2215 ECJ	NU 2215 E1	NU 2215 W
75	130	31	186	208	5600	9500	1.6	NU 2215 M	NU 2215 ECML	NU 2215 E.M1	NU 2215 M
75	130	31	186	208	5600	6000	1.6	NU 2215 T	NU 2215 ECP	NU 2215 E.TVP2	NU 2215 T
75	130	31	186	208	5600	6000	1.65	NUP 2215 W	NUP 2215 ECJ	NUP 2215 E1	NUP 2215 W
75	130	31	186	208	5600	9500	1.65	NUP 2215 M	NUP 2215 ECML	NUP 2215 E.M1	NUP 2215 M
75	130	31	186	208	5600	6000	1.65	NUP 2215 T	NUP 2215 ECP	NUP 2215 E.TVP2	NUP 2215 T
75	160	37	280	265	4500	5300	3.3	N 315 M	N 315 ECM	N 315 E.M1	N 315 M
75	160	37	280	265	4500	5300	3.3	N 315 T	N 315 ECP	N 315 E.TVP2	N 315 T
75	160	37	280	265	4500	5300	3.35	NJ 315 W	NJ 315 ECJ	NJ 315 E1	NJ 315 W
75	160	37	280	265	4500	5300	3.65	NJ 315 M	NJ 315 ECM	NJ 315 E.M1	NJ 315 M
75	160	37	280	265	4500	8000	3.65	NJ 315 M	NJ 315 ECML	NJ 315 E.M1	NJ 315 M
75	160	37	280	265	4500	5300	3.35	NJ 315 T	NJ 315 ECP	NJ 315 E.TVP2	NJ 315 T
75	160	37	280	265	4500	5300	3.3	NU 315 W	NU 315 ECJ	NU 315 E1	NU 315 W
75	160	37	280	265	4500	5300	3.6	NU 315 M	NU 315 ECM	NU 315 E.M1	NU 315 M
75	160	37	280	265	4500	8000	3.6	NU 315 M	NU 315 ECML	NU 315 E.M1	NU 315 M
75	160	37	280	265	4500	5300	3.3	NU 315 T	NU 315 ECP	NU 315 E.TVP2	NU 315 T
75	160	37	280	265	4500	5300	3.45	NUP 315 M	NUP 315 ECM	NUP 315 E.M1	NUP 315 M
75	160	37	280	265	4500	8000	3.45	NUP 315 M	NUP 315 ECML	NUP 315 E.M1	NUP 315 M
75	160	37	280	265	4500	5300	3.45	NUP 315 T	NUP 315 ECP	NUP 315 E.TVP2	NUP 315 T
75	160	55	380	400	4500	8000	5.4	NJ 2315 M	NJ 2315 ECML	NJ 2315 E.M1	NJ 2315 M
75	160	55	380	400	4500	8000	5.4	NJ 2315 M	NJ 2315 ECN2ML	NJ 2315 E.M1	NJ 2315 M
75	160	55	380	400	4500	5300	5	NJ 2315 T	NJ 2315 ECP	NJ 2315 E.TVP2	NJ 2315 T
75	160	55	380	400	4500	5300	4.93	NU 2315 W	NU 2315 ECJ	NU 2315 E1	NU 2315 W
75	160	55	380	400	4500	8000	4.93	NU 2315 M	NU 2315 ECML	NU 2315 E.M1	NU 2315 M
75	160	55	380	400	4500	5300	4.9	NU 2315 T	NU 2315 ECP	NU 2315 E.TVP2	NU 2315 T

CYLINDRICAL ROLLER BEARINGS
Single Row

Table 79
Bore Diameter 75mm - 80mm



Principal Dimensions			Basic Load Ratings		Speed Ratings		Mass	Designations			
d	D	B	Dynamic	Static	Ref. Speed	Limiting Speed		Local	SKF	FAG	NSK
mm			C	C ₀	r/min		kg				
75	160	55	380	400	4500	8000	5.1	NUP 2315 M	NUP 2315 ECML	NUP 2315 E.M1	NUP 2315 M
75	160	55	380	400	4500	5300	5.1	NUP 2315 T	NUP 2315 ECP	NUP 2315 E.TVP2	NUP 2315 T
75	190	45	264	280	4000	4800	6.9	NJ 415	NJ 415	NJ 415	NJ 415
75	190	45	264	280	4000	4800	6.25	NU 415	NU 415	NU 415	NU 415
75	190	45	264	280	4000	6300	6.75	NU 415 M	NU 415 MA	NU 415 E.M1	NU 415 M
80	125	22	99	127	5600	9500	1.1	NJ 1016 M	NJ 1016 ECML	NJ 1016 E.M1	NJ 1016 M
80	125	22	66	81.4	6300	6300	1	NU 1016	NU 1016	NU 1016	NU 1016
80	125	22	99	127	5600	6000	1.1	NU 1016 M	NU 1016 ECM	NU 1016 E.M1	NU 1016 M
80	140	26	160	166	5300	5600	1.5	N 216 T	N 216 ECP	N 216 E.TVP2	N 216 T
80	140	26	160	166	5300	5600	1.6	NJ 216 W	NJ 216 ECJ	NJ 216 E1	NJ 216 W
80	140	26	160	166	5300	5600	1.6	NJ 216 M	NJ 216 ECM	NJ 216 E.M1	NJ 216 M
80	140	26	160	166	5300	8500	1.6	NJ 216 M	NJ 216 ECML	NJ 216 E.M1	NJ 216 M
80	140	26	160	166	5300	5600	1.55	NJ 216 T	NJ 216 ECP	NJ 216 E.TVP2	NJ 216 T
80	140	26	160	166	5300	5600	1.5	NU 216 W	NU 216 ECJ	NU 216 E1	NU 216 W
80	140	26	160	166	5300	5600	1.65	NU 216 M	NU 216 ECM	NU 216 E.M1	NU 216 M
80	140	26	160	166	5300	8500	1.65	NU 216 M	NU 216 ECML	NU 216 E.M1	NU 216 M
80	140	26	160	166	5300	5600	1.5	NU 216 T	NU 216 ECP	NU 216 E.TVP2	NU 216 T
80	140	26	160	166	5300	8500	1.65	NUP 216 M	NUP 216 ECML	NUP 216 E.M1	NUP 216 M
80	140	26	160	166	5300	5600	1.65	NUP 216 T	NUP 216 ECP	NUP 216 E.TVP2	NUP 216 T
80	140	33	212	245	5300	5600	2.05	NJ 2216 W	NJ 2216 ECJ	NJ 2216 E1	NJ 2216 W
80	140	33	212	245	5300	5600	2.05	NJ 2216 M	NJ 2216 ECM	NJ 2216 E.M1	NJ 2216 M
80	140	33	212	245	5300	8500	2.05	NJ 2216 M	NJ 2216 ECML	NJ 2216 E.M1	NJ 2216 M
80	140	33	212	245	5300	5600	2.05	NJ 2216 T	NJ 2216 ECP	NJ 2216 E.TVP2	NJ 2216 T
80	140	33	212	245	5300	5600	2	NU 2216 W	NU 2216 ECJ	NU 2216 E1	NU 2216 W
80	140	33	212	245	5300	5600	2	NU 2216 M	NU 2216 ECM	NU 2216 E.M1	NU 2216 M
80	140	33	212	245	5300	8500	2.2	NU 2216 M	NU 2216 ECML	NU 2216 E.M1	NU 2216 M
80	140	33	212	245	5300	5600	2	NU 2216 T	NU 2216 ECP	NU 2216 E.TVP2	NU 2216 T
80	140	33	212	245	5300	5600	2.1	NUP 2216 W	NUP 2216 ECJ	NUP 2216 E1	NUP 2216 W
80	140	33	212	245	5300	5600	2.1	NUP 2216 M	NUP 2216 ECM	NUP 2216 E.M1	NUP 2216 M
80	140	33	212	245	5300	8500	2.1	NUP 2216 M	NUP 2216 ECML	NUP 2216 E.M1	NUP 2216 M
80	140	33	212	245	5300	5600	2.1	NUP 2216 T	NUP 2216 ECP	NUP 2216 E.TVP2	NUP 2216 T
80	170	39	300	290	4300	5000	3.9	N 316 M	N 316 ECM	N 316 E.M1	N 316 M
80	170	39	300	290	4300	5000	3.9	N 316 T	N 316 ECP	N 316 E.TVP2	N 316 T
80	170	39	300	290	4300	5000	4.05	NJ 316 W	NJ 316 ECJ	NJ 316 E1	NJ 316 W
80	170	39	300	290	4300	5000	4.7	NJ 316 M	NJ 316 ECM	NJ 316 E.M1	NJ 316 M
80	170	39	300	290	4300	7500	4.7	NJ 316 M	NJ 316 ECML	NJ 316 E.M1	NJ 316 M
80	170	39	300	290	4300	5000	4	NJ 316 T	NJ 316 ECP	NJ 316 E.TVP2	NJ 316 T
80	170	39	300	290	4300	5000	3.95	NU 316 W	NU 316 ECJ	NU 316 E1	NU 316 W
80	170	39	300	290	4300	5000	4.65	NU 316 M	NU 316 ECM	NU 316 E.M1	NU 316 M
80	170	39	300	290	4300	7500	4.65	NU 316 M	NU 316 ECML	NU 316 E.M1	NU 316 M
80	170	39	300	290	4300	5000	3.95	NU 316 T	NU 316 ECP	NU 316 E.TVP2	NU 316 T
80	170	39	300	290	4300	5000	4.1	NUP 316 M	NUP 316 ECM	NUP 316 E.M1	NUP 316 M
80	170	39	300	290	4300	7500	4.1	NUP 316 M	NUP 316 ECML	NUP 316 E.M1	NUP 316 M
80	170	39	300	290	4300	5000	4.1	NUP 316 T	NUP 316 ECP	NUP 316 E.TVP2	NUP 316 T
80	170	58	415	440	4300	5000	6	NJ 2316 M	NJ 2316 ECM	NJ 2316 E.M1	NJ 2316 M
80	170	58	415	440	4300	7500	6.6	NJ 2316 M	NJ 2316 ECML	NJ 2316 E.M1	NJ 2316 M
80	170	58	415	440	4300	5000	6	NJ 2316 T	NJ 2316 ECP	NJ 2316 E.TVP2	NJ 2316 T
80	170	58	415	440	4300	5000	5.95	NU 2316 M	NU 2316 ECM	NU 2316 E.M1	NU 2316 M
80	170	58	415	440	4300	7500	6.5	NU 2316 M	NU 2316 ECML	NU 2316 E.M1	NU 2316 M
80	170	58	415	440	4300	5000	5.95	NU 2316 T	NU 2316 ECP	NU 2316 E.TVP2	NU 2316 T



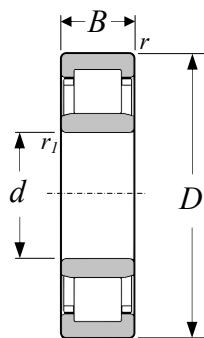
CYLINDRICAL ROLLER BEARINGS
Single Row

Table 80
Bore Diameter 80mm - 85mm

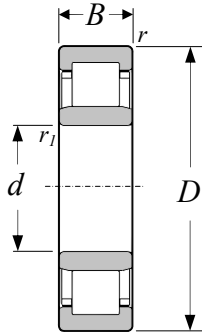
Principal Dimensions			Basic Load Ratings		Speed Ratings		Mass	Designations			
d	D	B	Dynamic	Static	Ref. Speed	Limiting Speed		Local	SKF	FAG	NSK
mm			C	C ₀	r/min		kg				
80	170	58	415	440	4300	7500	6.6	NUP 2316 M	NUP 2316 ECML	NUP 2316 E.M1	NUP 2316 M
80	170	58	415	440	4300	5000	6.6	NUP 2316 T	NUP 2316 ECP	NUP 2316 E.TVP2	NUP 2316 T
80	200	48	303	320	3800	4500	7.45	NJ 416	NJ 416	NJ 416	NJ 416
80	200	48	303	320	3800	4500	8.05	NJ 416 M	NJ 416 M	NJ 416 E.M1	NJ 416 M
80	200	48	303	320	3800	4500	7.9	NU 416 M	NU 416 M	NU 416 E.M1	NU 416 M
85	130	22	68.2	86.5	6000	9000	1.1	NJ 1017 M	NJ 1017 ML	NJ 1017 E.M1	NJ 1017 M
85	130	22	68.2	86.5	6000	6000	1.05	NU 1017 M	NU 1017 M	NU 1017 E.M1	NU 1017 M
85	130	22	68.2	86.5	6000	9000	1.05	NU 1017 M	NU 1017 ML	NU 1017 E.M1	NU 1017 M
85	150	28	190	200	4800	5300	1.9	N 217 M	N 217 ECM	N 217 E.M1	N 217 M
85	150	28	190	200	4800	5300	1.9	N 217 T	N 217 ECP	N 217 E.TVP2	N 217 T
85	150	28	190	200	4800	5300	1.95	NJ 217 W	NJ 217 ECJ	NJ 217 E1	NJ 217 W
85	150	28	190	200	4800	5300	2.15	NJ 217 M	NJ 217 ECM	NJ 217 E.M1	NJ 217 M
85	150	28	190	200	4800	8000	2.15	NJ 217 M	NJ 217 ECML	NJ 217 E.M1	NJ 217 M
85	150	28	190	200	4800	5300	1.95	NJ 217 T	NJ 217 ECP	NJ 217 E.TVP2	NJ 217 T
85	150	28	190	200	4800	5300	1.95	NU 217 W	NU 217 ECJ	NU 217 E1	NU 217 W
85	150	28	190	200	4800	5300	2.05	NU 217 M	NU 217 ECM	NU 217 E.M1	NU 217 M
85	150	28	190	200	4800	8000	2.05	NU 217 M	NU 217 ECML	NU 217 E.M1	NU 217 M
85	150	28	190	200	4800	5300	1.9	NU 217 T	NU 217 ECP	NU 217 E.TVP2	NU 217 T
85	150	28	190	200	4800	5300	2	NUP 217 W	NUP 217 ECJ	NUP 217 E1	NUP 217 W
85	150	28	190	200	4800	8000	2	NUP 217 M	NUP 217 ECML	NUP 217 E.M1	NUP 217 M
85	150	28	190	200	4800	5300	2	NUP 217 T	NUP 217 ECP	NUP 217 E.TVP2	NUP 217 T
85	150	36	250	280	4800	5300	2.55	NJ 2217 W	NJ 2217 ECJ	NJ 2217 E1	NJ 2217 W
85	150	36	250	280	4800	5300	2.55	NJ 2217 M	NJ 2217 ECM	NJ 2217 E.M1	NJ 2217 M
85	150	36	250	280	4800	8000	2.55	NJ 2217 M	NJ 2217 ECML	NJ 2217 E.M1	NJ 2217 M
85	150	36	250	280	4800	5300	2.55	NJ 2217 T	NJ 2217 ECP	NJ 2217 E.TVP2	NJ 2217 T
85	150	36	250	280	4800	5300	2.45	NU 2217 W	NU 2217 ECJ	NU 2217 E1	NU 2217 W
85	150	36	250	280	4800	5300	2.45	NU 2217 M	NU 2217 ECM	NU 2217 E.M1	NU 2217 M
85	150	36	250	280	4800	8000	2.7	NU 2217 M	NU 2217 ECML	NU 2217 E.M1	NU 2217 M
85	150	36	250	280	4800	5300	2.45	NU 2217 T	NU 2217 ECP	NU 2217 E.TVP2	NU 2217 T
85	150	36	250	280	4800	8000	2.65	NUP 2217 M	NUP 2217 ECML	NUP 2217 E.M1	NUP 2217 M
85	150	36	250	280	4800	5300	2.65	NUP 2217 T	NUP 2217 ECP	NUP 2217 E.TVP2	NUP 2217 T
85	180	41	340	335	4000	4800	5.1	N 317 M	N 317 ECM	N 317 E.M1	N 317 M
85	180	41	340	335	4000	4800	4.7	N 317 T	N 317 ECP	N 317 E.TVP2	N 317 T
85	180	41	340	335	4000	4800	4.8	NJ 317 W	NJ 317 ECJ	NJ 317 E1	NJ 317 W
85	180	41	340	335	4000	4800	5.2	NJ 317 M	NJ 317 ECM	NJ 317 E.M1	NJ 317 M
85	180	41	340	335	4000	4800	4.8	NJ 317 T	NJ 317 ECP	NJ 317 E.TVP2	NJ 317 T
85	180	41	340	335	4000	4800	4.7	NU 317 W	NU 317 ECJ	NU 317 E1	NU 317 W
85	180	41	340	335	4000	4800	5.1	NU 317 M	NU 317 ECM	NU 317 E.M1	NU 317 M
85	180	41	340	335	4000	4800	4.7	NU 317 T	NU 317 ECP	NU 317 E.TVP2	NU 317 T
85	180	41	340	335	4000	4800	4.9	NUP 317 W	NUP 317 ECJ	NUP 317 E1	NUP 317 W
85	180	41	340	335	4000	4800	4.9	NUP 317 M	NUP 317 ECM	NUP 317 E.M1	NUP 317 M
85	180	41	340	335	4000	4800	4.9	NUP 317 T	NUP 317 ECP	NUP 317 E.TVP2	NUP 317 T
85	180	60	455	490	4000	4800	7	NJ 2317 M	NJ 2317 ECM	NJ 2317 E.M1	NJ 2317 M
85	180	60	455	490	4000	7000	7.6	NJ 2317 M	NJ 2317 ECML	NJ 2317 E.M1	NJ 2317 M
85	180	60	455	490	4000	4800	7	NJ 2317 T	NJ 2317 ECP	NJ 2317 E.TVP2	NJ 2317 T
85	180	60	455	490	4000	4800	6.85	NU 2317 W	NU 2317 ECJ	NU 2317 E1	NU 2317 W
85	180	60	455	490	4000	4800	6.85	NU 2317 M	NU 2317 ECM	NU 2317 E.M1	NU 2317 M
85	180	60	455	490	4000	7000	6.85	NU 2317 M	NU 2317 ECML	NU 2317 E.M1	NU 2317 M
85	180	60	455	490	4000	4800	6.85	NU 2317 T	NU 2317 ECP	NU 2317 E.TVP2	NU 2317 T
85	180	60	455	490	4000	7000	7	NUP 2317 M	NUP 2317 ECML	NUP 2317 E.M1	NUP 2317 M

CYLINDRICAL ROLLER BEARINGS
Single Row

Table 81
Bore Diameter 85mm - 90mm



Principal Dimensions			Basic Load Ratings		Speed Ratings		Mass	Designations			
d	D	B	Dynamic	Static	Ref. Speed	Limiting Speed		Local	SKF	FAG	NSK
mm			C	C ₀	r/min		kg				
85	180	60	455	490	4000	4800	7	NUP 2317 T	NUP 2317 ECNP	NUP 2317 E.TVP2	NUP 2317 T
85	180	60	455	490	4000	4800	7	NUP 2317 T	NUP 2317 ECP	NUP 2317 E.TVP2	NUP 2317 T
85	210	52	319	335	3600	4300	8.9	NJ 417	NJ 417	NJ 417	NJ 417
85	210	52	319	335	3600	4300	8.9	NJ 417 M	NJ 417 M	NJ 417 E.M1	NJ 417 M
85	210	52	319	335	3600	4300	9.7	NU 417	NU 417	NU 417	NU 417
85	210	52	319	335	3600	4300	9.7	NU 417 M	NU 417 M	NU 417 E.M1	NU 417 M
90	140	24	80.9	104	5600	8500	1.35	NU 1018 M	NU 1018 ML	NU 1018 E.M1	NU 1018 M
90	160	30	208	220	4500	5000	2.35	N 218 M	N 218 ECM	N 218 E.M1	N 218 M
90	160	30	208	220	4500	5000	2.35	N 218 T	N 218 ECP	N 218 E.TVP2	N 218 T
90	160	30	208	220	4500	5000	2.4	NJ 218 W	NJ 218 ECJ	NJ 218 E1	NJ 218 W
90	160	30	208	220	4500	5000	2.6	NJ 218 M	NJ 218 ECM	NJ 218 E.M1	NJ 218 M
90	160	30	208	220	4500	7500	2.6	NJ 218 M	NJ 218 ECML	NJ 218 E.M1	NJ 218 M
90	160	30	208	220	4500	5000	2.4	NJ 218 T	NJ 218 ECP	NJ 218 E.TVP2	NJ 218 T
90	160	30	208	220	4500	5000	2.35	NU 218 W	NU 218 ECJ	NU 218 E1	NU 218 W
90	160	30	208	220	4500	5000	2.55	NU 218 M	NU 218 ECM	NU 218 E.M1	NU 218 M
90	160	30	208	220	4500	7500	2.55	NU 218 M	NU 218 ECML	NU 218 E.M1	NU 218 M
90	160	30	208	220	4500	5000	2.35	NU 218 T	NU 218 ECP	NU 218 E.TVP2	NU 218 T
90	160	30	208	220	4500	5000	2.45	NUP 218 M	NUP 218 ECM	NUP 218 E.M1	NUP 218 M
90	160	30	208	220	4500	7500	2.45	NUP 218 M	NUP 218 ECML	NUP 218 E.M1	NUP 218 M
90	160	30	208	220	4500	5000	2.45	NUP 218 T	NUP 218 ECP	NUP 218 E.TVP2	NUP 218 T
90	160	40	280	315	4500	5000	3.2	NJ 2218 W	NJ 2218 ECJ	NJ 2218 E1	NJ 2218 W
90	160	40	280	315	4500	5000	3.5	NJ 2218 M	NJ 2218 ECM	NJ 2218 E.M1	NJ 2218 M
90	160	40	280	315	4500	7500	3.5	NJ 2218 M	NJ 2218 ECML	NJ 2218 E.M1	NJ 2218 M
90	160	40	280	315	4500	7500	3.5	NJ 2218 M	NJ 2218 ECN1ML	NJ 2218 E.M1	NJ 2218 M
90	160	40	280	315	4500	5000	3.2	NJ 2218 T	NJ 2218 ECP	NJ 2218 E.TVP2	NJ 2218 T
90	160	40	280	315	4500	5000	3.15	NU 2218 W	NU 2218 ECJ	NU 2218 E1	NU 2218 W
90	160	40	280	315	4500	5000	3.15	NU 2218 M	NU 2218 ECM	NU 2218 E.M1	NU 2218 M
90	160	40	280	315	4500	7500	3.15	NU 2218 M	NU 2218 ECML	NU 2218 E.M1	NU 2218 M
90	160	40	280	315	4500	5000	3.15	NU 2218 T	NU 2218 ECP	NU 2218 E.TVP2	NU 2218 T
90	160	40	280	315	4500	5000	3.3	NUP 2218 T	NUP 2218 ECP	NUP 2218 E.TVP2	NUP 2218 T
90	190	43	365	360	3800	4500	5.85	N 318 M	N 318 ECM	N 318 E.M1	N 318 M
90	190	43	365	360	3800	4500	5.4	N 318 T	N 318 ECP	N 318 E.TVP2	N 318 T
90	190	43	365	360	3800	4500	6	NJ 318 M	NJ 318 ECM	NJ 318 E.M1	NJ 318 M
90	190	43	365	360	3800	6700	6	NJ 318 M	NJ 318 ECML	NJ 318 E.M1	NJ 318 M
90	190	43	365	360	3800	4500	5.55	NJ 318 T	NJ 318 ECP	NJ 318 E.TVP2	NJ 318 T
90	190	43	365	360	3800	4500	5.45	NU 318 W	NU 318 ECJ	NU 318 E1	NU 318 W
90	190	43	365	360	3800	4500	5.9	NU 318 M	NU 318 ECM	NU 318 E.M1	NU 318 M
90	190	43	365	360	3800	6700	5.9	NU 318 M	NU 318 ECML	NU 318 E.M1	NU 318 M
90	190	43	365	360	3800	4500	5.45	NU 318 T	NU 318 ECP	NU 318 E.TVP2	NU 318 T
90	190	43	365	360	3800	4500	5.65	NUP 318 W	NUP 318 ECJ	NUP 318 E1	NUP 318 W
90	190	43	365	360	3800	4500	5.65	NUP 318 M	NUP 318 ECM	NUP 318 E.M1	NUP 318 M
90	190	43	365	360	3800	6700	5.65	NUP 318 M	NUP 318 ECML	NUP 318 E.M1	NUP 318 M
90	190	53	365	360	3800	4500	5.55	NJ 318 W	NJ 318 ECJ	NJ 318 E1	NJ 318 W
90	190	64	500	540	3800	4500	8.15	NJ 2318 W	NJ 2318 ECJ	NJ 2318 E1	NJ 2318 W
90	190	64	500	540	3800	4500	8.15	NJ 2318 M	NJ 2318 ECM	NJ 2318 E.M1	NJ 2318 M
90	190	64	500	540	3800	6700	8.8	NJ 2318 M	NJ 2318 ECML	NJ 2318 E.M1	NJ 2318 M
90	190	64	500	540	3800	4500	8.15	NJ 2318 T	NJ 2318 ECP	NJ 2318 E.TVP2	NJ 2318 T
90	190	64	500	540	3800	4500	8	NU 2318 W	NU 2318 ECJ	NU 2318 E1	NU 2318 W
90	190	64	500	540	3800	4500	8	NU 2318 M	NU 2318 ECM	NU 2318 E.M1	NU 2318 M
90	190	64	500	540	3800	6700	8.65	NU 2318 M	NU 2318 ECML	NU 2318 E.M1	NU 2318 M



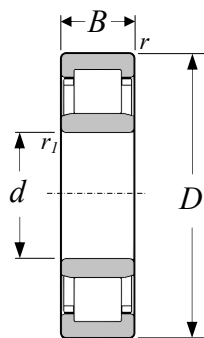
CYLINDRICAL ROLLER BEARINGS
Single Row

Table 82
Bore Diameter 90mm - 100mm

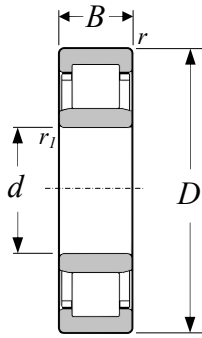
Principal Dimensions			Basic Load Ratings		Speed Ratings		Mass	Designations				
d	D	B	Dynamic	Static	Ref. Speed	Limiting Speed		Local		SKF	FAG	NSK
mm			C	C ₀	r/min		kg					
90	190	64	500	540	3800	4500	8		NU 2318 T	NU 2318 ECP	NU 2318 E.TVP2	NU 2318 T
90	190	64	500	540	3800	6700	8.15		NUP 2318 M	NUP 2318 ECML	NUP 2318 E.M1	NUP 2318 M
90	190	64	500	540	3800	4500	8.15		NUP 2318 T	NUP 2318 ECP	NUP 2318 E.TVP2	NUP 2318 T
90	225	54	380	415	3400	4000	10.5		NU 418	NU 418	NU 418	NU 418
90	225	54	380	415	3400	4000	11.5		NU 418 M	NU 418 M	NU 418 E.M1	NU 418 M
95	145	24	84.2	110	5300	8000	1.4		NU 1019 M	NU 1019 ML	NU 1019 E.M1	NU 1019 M
95	170	32	255	265	4300	4800	2.85		N 219 T	N 219 ECP	N 219 E.TVP2	N 219 T
95	170	32	255	265	4300	4800	2.9		NJ 219 W	NJ 219 ECJ	NJ 219 E1	NJ 219 W
95	170	32	255	265	4300	4800	2.9		NJ 219 M	NJ 219 ECM	NJ 219 E.M1	NJ 219 M
95	170	32	255	265	4300	7000	2.9		NJ 219 M	NJ 219 ECML	NJ 219 E.M1	NJ 219 M
95	170	32	255	265	4300	4800	2.9		NJ 219 T	NJ 219 ECP	NJ 219 E.TVP2	NJ 219 T
95	170	32	255	265	4300	4800	2.85		NU 219 W	NU 219 ECJ	NU 219 E1	NU 219 W
95	170	32	255	265	4300	4800	3.1		NU 219 M	NU 219 ECM	NU 219 E.M1	NU 219 M
95	170	32	255	265	4300	7000	3.1		NU 219 M	NU 219 ECML	NU 219 E.M1	NU 219 M
95	170	32	255	265	4300	4800	2.85		NU 219 T	NU 219 ECP	NU 219 E.TVP2	NU 219 T
95	170	32	255	265	4300	4800	3		NUP 219 M	NUP 219 ECM	NUP 219 E.M1	NUP 219 M
95	170	32	255	265	4300	7000	3		NUP 219 M	NUP 219 ECML	NUP 219 E.M1	NUP 219 M
95	170	32	255	265	4300	4800	3		NUP 219 T	NUP 219 ECP	NUP 219 E.TVP2	NUP 219 T
95	170	43	325	375	4300	4800	3.95		NJ 2219 W	NJ 2219 ECJ	NJ 2219 E1	NJ 2219 W
95	170	43	325	375	4300	4800	3.95		NJ 2219 M	NJ 2219 ECM	NJ 2219 E.M1	NJ 2219 M
95	170	43	325	375	4300	4800	3.95		NJ 2219 T	NJ 2219 ECP	NJ 2219 E.TVP2	NJ 2219 T
95	170	43	325	375	4300	4800	3.85		NU 2219 W	NU 2219 ECJ	NU 2219 E1	NU 2219 W
95	170	43	325	375	4300	4800	3.85		NU 2219 M	NU 2219 ECM	NU 2219 E.M1	NU 2219 M
95	170	43	325	375	4300	4800	3.85		NU 2219 T	NU 2219 ECP	NU 2219 E.TVP2	NU 2219 T
95	170	43	325	375	4300	4800	4		NUP 2219 T	NUP 2219 ECP	NUP 2219 E.TVP2	NUP 2219 T
95	200	45	390	390	3600	4300	6.25		N 319 M	N 319 ECM	N 319 E.M1	N 319 M
95	200	45	390	390	3600	4300	6.25		N 319 T	N 319 ECP	N 319 E.TVP2	N 319 T
95	200	45	390	390	3600	4300	6.45		NJ 319 W	NJ 319 ECJ	NJ 319 E1	NJ 319 W
95	200	45	390	390	3600	4300	7.5		NJ 319 M	NJ 319 ECM	NJ 319 E.M1	NJ 319 M
95	200	45	390	390	3600	6300	7.5		NJ 319 M	NJ 319 ECML	NJ 319 E.M1	NJ 319 M
95	200	45	390	390	3600	6300	7.5		NJ 319 M	NJ 319 ECN2ML	NJ 319 E.M1	NJ 319 M
95	200	45	390	390	3600	4300	6.45		NJ 319 T	NJ 319 ECP	NJ 319 E.TVP2	NJ 319 T
95	200	45	390	390	3600	4300	6.25		NU 319 W	NU 319 ECJ	NU 319 E1	NU 319 W
95	200	45	390	390	3600	4300	7.3		NU 319 M	NU 319 ECM	NU 319 E.M1	NU 319 M
95	200	45	390	390	3600	6300	7.3		NU 319 M	NU 319 ECML	NU 319 E.M1	NU 319 M
95	200	45	390	390	3600	4300	6.25		NU 319 T	NU 319 ECP	NU 319 E.TVP2	NU 319 T
95	200	45	390	390	3600	4300	7.3		NUP 319 M	NUP 319 ECM	NUP 319 E.M1	NUP 319 M
95	200	45	390	390	3600	6300	7.3		NUP 319 M	NUP 319 ECML	NUP 319 E.M1	NUP 319 M
95	200	45	390	390	3600	4300	6.25		NUP 319 T	NUP 319 ECP	NUP 319 E.TVP2	NUP 319 T
95	200	67	530	585	3600	4300	10.7		NJ 2319 W	NJ 2319 ECJ	NJ 2319 E1	NJ 2319 W
95	200	67	530	585	3600	6300	10.7		NJ 2319 M	NJ 2319 ECML	NJ 2319 E.M1	NJ 2319 M
95	200	67	530	585	3600	4300	10.7		NJ 2319 T	NJ 2319 ECP	NJ 2319 E.TVP2	NJ 2319 T
95	200	67	530	585	3600	4300	9.65		NU 2319 W	NU 2319 ECJ	NU 2319 E1	NU 2319 W
95	200	67	530	585	3600	6300	10.5		NU 2319 M	NU 2319 ECML	NU 2319 E.M1	NU 2319 M
95	200	67	530	585	3600	4300	9.65		NU 2319 T	NU 2319 ECP	NU 2319 E.TVP2	NU 2319 T
95	200	67	530	585	3600	4300	9.75		NUP 2319 W	NUP 2319 ECJ	NUP 2319 E1	NUP 2319 W
95	200	67	530	585	3600	6300	9.75		NUP 2319 M	NUP 2319 ECML	NUP 2319 E.M1	NUP 2319 M
95	200	67	530	585	3600	4300	9.75		NUP 2319 T	NUP 2319 ECP	NUP 2319 E.TVP2	NUP 2319 T
95	240	55	413	455	3200	3600	13.5		NU 419 M	NU 419 M	NU 419 E.M1	NU 419 M
100	150	24	85.8	114	5000	5000	1.45		NU 1020 M	NU 1020 M	NU 1020 E.M1	NU 1020 M

CYLINDRICAL ROLLER BEARINGS
Single Row

Table 83
Bore Diameter 100mm



Principal Dimensions			Basic Load Ratings		Speed Ratings		Mass	Designations			
d	D	B	Dynamic	Static	Ref. Speed	Limiting Speed					
mm			C	C ₀	r/min		Local	SKF	FAG	NSK	
100	150	24	85.8	114	5000	7500	1.45	NU 1020 M	NU 1020 ML	NU 1020 E.M1	NU 1020 M
100	180	34	285	305	4000	4500	3.45	N 220 T	N 220 ECP	N 220 E.TVP2	N 220 T
100	180	34	285	305	4000	4500	3.55	NJ 220 W	NJ 220 ECJ	NJ 220 E1	NJ 220 W
100	180	34	285	305	4000	4500	3.8	NJ 220 M	NJ 220 ECM	NJ 220 E.M1	NJ 220 M
100	180	34	285	305	4000	6700	3.8	NJ 220 M	NJ 220 ECML	NJ 220 E.M1	NJ 220 M
100	180	34	285	305	4000	4500	3.5	NJ 220 T	NJ 220 ECP	NJ 220 E.TVP2	NJ 220 T
100	180	34	285	305	4000	4500	3.45	NU 220 W	NU 220 ECJ	NU 220 E1	NU 220 W
100	180	34	285	305	4000	4500	3.75	NU 220 M	NU 220 ECM	NU 220 E.M1	NU 220 M
100	180	34	285	305	4000	6700	3.75	NU 220 M	NU 220 ECML	NU 220 E.M1	NU 220 M
100	180	34	285	305	4000	4500	3.45	NU 220 T	NU 220 ECP	NU 220 E.TVP2	NU 220 T
100	180	34	285	305	4000	6700	3.6	NUP 220 M	NUP 220 ECML	NUP 220 E.M1	NUP 220 M
100	180	34	285	305	4000	4500	3.6	NUP 220 T	NUP 220 ECP	NUP 220 E.TVP2	NUP 220 T
100	180	46	380	450	4000	4500	4.8	NJ 2220 W	NJ 2220 ECJ	NJ 2220 E1	NJ 2220 W
100	180	46	380	450	4000	4500	5.2	NJ 2220 M	NJ 2220 ECM	NJ 2220 E.M1	NJ 2220 M
100	180	46	380	450	4000	6700	5.2	NJ 2220 M	NJ 2220 ECML	NJ 2220 E.M1	NJ 2220 M
100	180	46	380	450	4000	4500	4.8	NJ 2220 T	NJ 2220 ECP	NJ 2220 E.TVP2	NJ 2220 T
100	180	46	380	450	4000	4500	4.75	NU 2220 W	NU 2220 ECJ	NU 2220 E1	NU 2220 W
100	180	46	380	450	4000	4500	4.75	NU 2220 M	NU 2220 ECM	NU 2220 E.M1	NU 2220 M
100	180	46	380	450	4000	6700	5.15	NU 2220 M	NU 2220 ECML	NU 2220 E.M1	NU 2220 M
100	180	46	380	450	4000	6700	5.15	NU 2220 M	NU 2220 ECNML	NU 2220 E.M1	NU 2220 M
100	180	46	380	450	4000	4500	4.75	NU 2220 T	NU 2220 ECP	NU 2220 E.TVP2	NU 2220 T
100	180	46	380	450	4000	6700	4.9	NUP 2220 M	NUP 2220 ECML	NUP 2220 E.M1	NUP 2220 M
100	180	46	380	450	4000	4500	4.9	NUP 2220 T	NUP 2220 ECP	NUP 2220 E.TVP2	NUP 2220 T
100	215	47	450	440	3200	3800	8.85	N 320 M	N 320 ECM	N 320 E.M1	N 320 M
100	215	47	450	440	3200	3800	7.55	N 320 T	N 320 ECP	N 320 E.TVP2	N 320 T
100	215	47	450	440	3200	3800	9	NF 320 M	NF 320 ECM	NF 320 E.M1	NF 320 M
100	215	47	450	440	3200	3800	7.8	NJ 320 W	NJ 320 ECJ	NJ 320 E1	NJ 320 W
100	215	47	450	440	3200	3800	9	NJ 320 M	NJ 320 ECM	NJ 320 E.M1	NJ 320 M
100	215	47	450	440	3200	6000	9	NJ 320 M	NJ 320 ECML	NJ 320 E.M1	NJ 320 M
100	215	47	450	440	3200	3800	7.65	NJ 320 T	NJ 320 ECP	NJ 320 E.TVP2	NJ 320 T
100	215	47	450	440	3200	3800	7.85	NU 320 W	NU 320 ECJ	NU 320 E1	NU 320 W
100	215	47	450	440	3200	3800	8.95	NU 320 M	NU 320 ECM	NU 320 E.M1	NU 320 M
100	215	47	450	440	3200	6000	8.95	NU 320 M	NU 320 ECML	NU 320 E.M1	NU 320 M
100	215	47	450	440	3200	3800	8.95	NU 320 M	NU 320 ECN1ML	NU 320 E.M1	NU 320 M
100	215	47	450	440	3200	3800	7.8	NU 320 T	NU 320 ECP	NU 320 E.TVP2	NU 320 T
100	215	47	450	440	3200	3800	8	NUP 320 W	NUP 320 ECJ	NUP 320 E1	NUP 320 W
100	215	47	450	440	3200	6000	9	NUP 320 M	NUP 320 ECML	NUP 320 E.M1	NUP 320 M
100	215	73	670	735	3200	3800	12.2	NJ 2320 W	NJ 2320 ECJ	NJ 2320 E1	NJ 2320 W
100	215	73	670	735	3200	3800	13.2	NJ 2320 M	NJ 2320 ECM	NJ 2320 E.M1	NJ 2320 M
100	215	73	670	735	3200	6000	13.2	NJ 2320 M	NJ 2320 ECML	NJ 2320 E.M1	NJ 2320 M
100	215	73	670	735	3200	3800	12.2	NJ 2320 T	NJ 2320 ECP	NJ 2320 E.TVP2	NJ 2320 T
100	215	73	670	735	3200	3800	12	NU 2320 W	NU 2320 ECJ	NU 2320 E1	NU 2320 W
100	215	73	670	735	3200	3800	13	NU 2320 M	NU 2320 ECM	NU 2320 E.M1	NU 2320 M
100	215	73	670	735	3200	6000	13	NU 2320 M	NU 2320 ECML	NU 2320 E.M1	NU 2320 M
100	215	73	670	735	3200	6000	13	NU 2320 M	NU 2320 ECN1ML	NU 2320 E.M1	NU 2320 M
100	215	73	670	735	3200	3800	12	NU 2320 T	NU 2320 ECP	NU 2320 E.TVP2	NU 2320 T
100	215	73	670	735	3200	3800	12.5	NUP 2320 W	NUP 2320 ECJ	NUP 2320 E1	NUP 2320 W
100	215	73	670	735	3200	6000	12.5	NUP 2320 M	NUP 2320 ECML	NUP 2320 E.M1	NUP 2320 M
100	215	73	670	735	3200	3800	12.5	NUP 2320 T	NUP 2320 ECP	NUP 2320 E.TVP2	NUP 2320 T
100	250	58	429	475	3000	3600	14	NU 420	NU 420	NU 420	NU 420



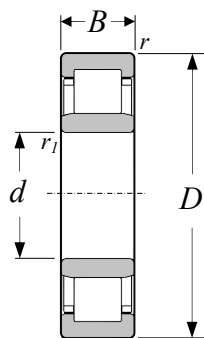
CYLINDRICAL ROLLER BEARINGS
Single Row

Table 84
Bore Diameter 100mm - 110mm

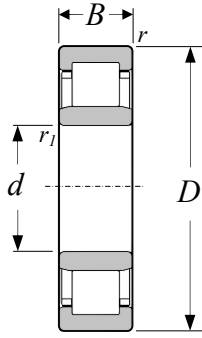
Principal Dimensions			Basic Load Ratings		Speed Ratings		Mass	Designations			
d	D	B	Dynamic	Static	Ref. Speed	Limiting Speed					
mm			C	C ₀	r/min		Local	SKF	FAG	NSK	
100	150	24	85.8	114	5000	7500	1.45	NU 1020 M	NU 1020 ML	NU 1020 E.M1	NU 1020 M
100	250	58	429	475	3000	3600	14	NU 420 M	NU 420 M	NU 420 E.M1	NU 420 M
105	160	26	101	137	4800	4800	1.85	NU 1021 M	NU 1021 M	NU 1021 E.M1	NU 1021 M
105	160	26	101	137	4800	7500	1.85	NU 1021 M	NU 1021 ML	NU 1021 E.M1	NU 1021 M
105	190	36	300	315	3800	4300	3.95	N 221 T	N 221 ECP	N 221 E.TVP2	N 221 T
105	190	36	300	315	3800	4300	4.1	NJ 221 W	NJ 221 ECJ	NJ 221 E1	NJ 221 W
105	190	36	300	315	3800	6300	4.1	NJ 221 M	NJ 221 ECML	NJ 221 E.M1	NJ 221 M
105	190	36	300	315	3800	6300	4.1	NJ 221 M	NJ 221 ECN2ML	NJ 221 E.M1	NJ 221 M
105	190	36	300	315	3800	4300	4.1	NJ 221 T	NJ 221 ECP	NJ 221 E.TVP2	NJ 221 T
105	190	36	300	315	3800	4300	4.1	NU 221 W	NU 221 ECJ	NU 221 E1	NU 221 W
105	190	36	300	315	3800	6300	4	NU 221 M	NU 221 ECML	NU 221 E.M1	NU 221 M
105	190	36	300	315	3800	4300	4	NU 221 T	NU 221 ECP	NU 221 E.TVP2	NU 221 T
105	190	36	300	315	3800	6300	4	NUP 221 M	NUP 221 ECML	NUP 221 E.M1	NUP 221 M
105	190	36	300	315	3800	4300	4	NUP 221 T	NUP 221 ECP	NUP 221 E.TVP2	NUP 221 T
105	225	49	500	500	3200	3800	8.65	N 321 T	N 321 ECP	N 321 E.TVP2	N 321 T
105	225	49	500	500	3200	3800	9	NJ 321 W	NJ 321 ECJ	NJ 321 E1	NJ 321 W
105	225	49	500	500	3200	5600	9	NJ 321 M	NJ 321 ECML	NJ 321 E.M1	NJ 321 M
105	225	49	500	500	3200	3800	9	NJ 321 T	NJ 321 ECP	NJ 321 E.TVP2	NJ 321 T
105	225	49	500	500	3200	3800	8.9	NU 321 W	NU 321 ECJ	NU 321 E1	NU 321 W
105	225	49	500	500	3200	5600	8.9	NU 321 M	NU 321 ECML	NU 321 E.M1	NU 321 M
105	225	49	500	500	3200	3800	8.75	NU 321 T	NU 321 ECP	NU 321 E.TVP2	NU 321 T
105	260	60	501	570	2800	3400	19	NU 421 M	NU 421 M	NU 421 E.M1	NU 421 M
110	170	28	128	166	4500	4500	2.3	NU 1022 M	NU 1022 M	NU 1022 E.M1	NU 1022 M
110	170	28	128	166	4500	7000	2.3	NU 1022 M	NU 1022 ML	NU 1022 E.M1	NU 1022 M
110	200	38	335	365	3600	4000	5.4	N 222 M	N 222 ECM	N 222 E.M1	N 222 M
110	200	38	335	365	3600	4000	4.8	N 222 T	N 222 ECP	N 222 E.TVP2	N 222 T
110	200	38	335	365	3600	4000	4.95	NJ 222 W	NJ 222 ECJ	NJ 222 E1	NJ 222 W
110	200	38	335	365	3600	4000	5.7	NJ 222 M	NJ 222 ECM	NJ 222 E.M1	NJ 222 M
110	200	38	335	365	3600	4000	5.7	NJ 222 M	NJ 222 ECML	NJ 222 E.M1	NJ 222 M
110	200	38	335	365	3600	4000	4.9	NJ 222 T	NJ 222 ECP	NJ 222 E.TVP2	NJ 222 T
110	200	38	335	365	3600	4000	4.85	NU 222 W	NU 222 ECJ	NU 222 E1	NU 222 W
110	200	38	335	365	3600	4000	5.4	NU 222 M	NU 222 ECM	NU 222 E.M1	NU 222 M
110	200	38	335	365	3600	6000	5.4	NU 222 M	NU 222 ECML	NU 222 E.M1	NU 222 M
110	200	38	335	365	3600	4000	4.8	NU 222 T	NU 222 ECP	NU 222 E.TVP2	NU 222 T
110	200	38	335	365	3600	6000	5	NUP 222 M	NUP 222 ECML	NUP 222 E.M1	NUP 222 M
110	200	38	335	365	3600	4000	5	NUP 222 T	NUP 222 ECP	NUP 222 E.TVP2	NUP 222 T
110	200	53	440	520	3600	4000	7.15	NJ 2222 W	NJ 2222 ECJ	NJ 2222 E1	NJ 2222 W
110	200	53	440	520	3600	6000	7.15	NJ 2222 M	NJ 2222 ECML	NJ 2222 E.M1	NJ 2222 M
110	200	53	440	520	3600	4000	6.85	NJ 2222 T	NJ 2222 ECP	NJ 2222 E.TVP2	NJ 2222 T
110	200	53	440	520	3600	4000	7	NU 2222 W	NU 2222 ECJ	NU 2222 E1	NU 2222 W
110	200	53	440	520	3600	6000	7.4	NU 2222 M	NU 2222 ECML	NU 2222 E.M1	NU 2222 M
110	200	53	440	520	3600	6000	7.4	NU 2222 M	NU 2222 ECN1ML	NU 2222 E.M1	NU 2222 M
110	200	53	440	520	3600	6000	7.4	NU 2222 M	NU 2222 ECNML	NU 2222 E.M1	NU 2222 M
110	200	53	440	520	3600	4000	6.7	NU 2222 T	NU 2222 ECP	NU 2222 E.TVP2	NU 2222 T
110	200	53	440	520	3600	6000	7.7	NUP 2222 M	NUP 2222 ECML	NUP 2222 E.M1	NUP 2222 M
110	200	53	440	520	3600	4000	7	NUP 2222 T	NUP 2222 ECP	NUP 2222 E.TVP2	NUP 2222 T
110	240	50	530	540	3000	3400	11.7	N 322 M	N 322 ECM	N 322 E.M1	N 322 M
110	240	50	530	540	3000	3400	10.5	N 322 T	N 322 ECP	N 322 E.TVP2	N 322 T
110	240	50	530	540	3000	3400	11.1	NJ 322 W	NJ 322 ECJ	NJ 322 E1	NJ 322 W
110	240	50	530	540	3000	3400	12.3	NJ 322 M	NJ 322 ECM	NJ 322 E.M1	NJ 322 M
110	240	50	530	540	3000	5300	12.3	NJ 322 M	NJ 322 ECML	NJ 322 E.M1	NJ 322 M

CYLINDRICAL ROLLER BEARINGS
Single Row

Table 85
Bore Diameter 110mm - 120mm



Principal Dimensions			Basic Load Ratings		Speed Ratings		Mass	Designations			
d	D	B	Dynamic	Static	Ref. Speed	Limiting Speed					
mm			C	C ₀	r/min		Local	SKF	FAG	NSK	
110	240	50	530	540	3000	3400	11.1	NJ 322 T	NJ 322 ECP	NJ 322 E.TVP2	NJ 322 T
110	240	50	530	540	3000	3400	11.2	NU 322 W	NU 322 ECJ	NU 322 E1	NU 322 W
110	240	50	530	540	3000	3400	12	NU 322 M	NU 322 ECM	NU 322 E.M1	NU 322 M
110	240	50	530	540	3000	5300	12	NU 322 M	NU 322 ECML	NU 322 E.M1	NU 322 M
110	240	50	530	540	3000	5300	12	NU 322 M	NU 322 ECNML	NU 322 E.M1	NU 322 M
110	240	50	530	540	3000	3400	10.8	NU 322 T	NU 322 ECP	NU 322 E.TVP2	NU 322 T
110	240	50	530	540	3000	3400	11.2	NUP 322 W	NUP 322 ECJ	NUP 322 E1	NUP 322 W
110	240	50	530	540	3000	5300	11.2	NUP 322 M	NUP 322 ECML	NUP 322 E.M1	NUP 322 M
110	240	50	530	540	3000	3400	11.2	NUP 322 T	NUP 322 ECP	NUP 322 E.TVP2	NUP 322 T
110	240	80	780	900	3000	4500	18.9	NJ 2322 M	NJ 2322 ECMA	NJ 2322 E.M1	NJ 2322 M
110	240	80	780	900	3000	3400	18.9	NJ 2322 T	NJ 2322 ECP	NJ 2322 E.TVP2	NJ 2322 T
110	240	80	780	900	3000	4500	18.7	NU 2322 M	NU 2322 ECMA	NU 2322 E.M1	NU 2322 M
110	240	80	780	900	3000	3400	17	NU 2322 T	NU 2322 ECP	NU 2322 E.TVP2	NU 2322 T
110	280	65	532	585	2600	3200	20.3	NJ 422	NJ 422	NJ 422	NJ 422
110	280	65	532	585	2600	3200	24	NJ 422 M	NJ 422 M	NJ 422 E.M1	NJ 422 M
110	280	65	532	585	2600	3200	20	NU 422	NU 422	NU 422	NU 422
110	280	65	532	585	2600	3200	20	NU 422 M	NU 422 M	NU 422 E.M1	NU 422 M
120	180	28	134	183	4000	6300	2.5	NJ 1024 M	NJ 1024 ML	NJ 1024 E.M1	NJ 1024 M
120	180	28	134	183	4000	4000	2.45	NU 1024 M	NU 1024 M	NU 1024 E.M1	NU 1024 M
120	180	28	134	183	4000	6300	2.45	NU 1024 M	NU 1024 ML	NU 1024 E.M1	NU 1024 M
120	215	40	390	430	3400	3600	6.6	N 224 M	N 224 ECM	N 224 E.M1	N 224 M
120	215	40	390	430	3400	3600	5.75	N 224 T	N 224 ECP	N 224 E.TVP2	N 224 T
120	215	40	390	430	3400	3600	5.95	NJ 224 W	NJ 224 ECJ	NJ 224 E1	NJ 224 W
120	215	40	390	430	3400	3600	6.5	NJ 224 M	NJ 224 ECM	NJ 224 E.M1	NJ 224 M
120	215	40	390	430	3400	5600	6.5	NJ 224 M	NJ 224 ECML	NJ 224 E.M1	NJ 224 M
120	215	40	390	430	3400	3600	5.85	NJ 224 T	NJ 224 ECP	NJ 224 E.TVP2	NJ 224 T
120	215	40	390	430	3400	3600	5.85	NU 224 W	NU 224 ECJ	NU 224 E1	NU 224 W
120	215	40	390	430	3400	3600	6.4	NU 224 M	NU 224 ECM	NU 224 E.M1	NU 224 M
120	215	40	390	430	3400	5600	6.4	NU 224 M	NU 224 ECML	NU 224 E.M1	NU 224 M
120	215	40	390	430	3400	3600	5.75	NU 224 T	NU 224 ECP	NU 224 E.TVP2	NU 224 T
120	215	40	390	430	3400	3600	6	NUP 224 W	NUP 224 ECJ	NUP 224 E1	NUP 224 W
120	215	40	390	430	3400	5600	6	NUP 224 M	NUP 224 ECML	NUP 224 E.M1	NUP 224 M
120	215	40	390	430	3400	3600	6	NUP 224 T	NUP 224 ECP	NUP 224 E.TVP2	NUP 224 T
120	215	58	520	630	3400	3600	8.85	NJ 2224 W	NJ 2224 ECJ	NJ 2224 E1	NJ 2224 W
120	215	58	520	630	3400	3600	8.85	NJ 2224 M	NJ 2224 ECM	NJ 2224 E.M1	NJ 2224 M
120	215	58	520	630	3400	5600	8.85	NJ 2224 M	NJ 2224 ECML	NJ 2224 E.M1	NJ 2224 M
120	215	58	520	630	3400	3600	8.5	NJ 2224 T	NJ 2224 ECP	NJ 2224 E.TVP2	NJ 2224 T
120	215	58	520	630	3400	3600	8.8	NU 2224 W	NU 2224 ECJ	NU 2224 E1	NU 2224 W
120	215	58	520	630	3400	3600	9.7	NU 2224 M	NU 2224 ECM	NU 2224 E.M1	NU 2224 M
120	215	58	520	630	3400	5600	9.7	NU 2224 M	NU 2224 ECML	NU 2224 E.M1	NU 2224 M
120	215	58	520	630	3400	5600	9.7	NU 2224 M	NU 2224 ECNML	NU 2224 E.M1	NU 2224 M
120	215	58	520	630	3400	3600	8.3	NU 2224 T	NU 2224 ECP	NU 2224 E.TVP2	NU 2224 T
120	215	58	520	630	3400	3600	9	NUP 2224 W	NUP 2224 ECJ	NUP 2224 E1	NUP 2224 W
120	215	58	520	630	3400	3600	10.1	NUP 2224 M	NUP 2224 ECM	NUP 2224 E.M1	NUP 2224 M
120	215	58	520	630	3400	5600	9	NUP 2224 M	NUP 2224 ECML	NUP 2224 E.M1	NUP 2224 M
120	215	58	520	630	3400	3600	9	NUP 2224 T	NUP 2224 ECP	NUP 2224 E.TVP2	NUP 2224 T
120	260	55	610	620	2800	3200	15	N 324 M	N 324 ECM	N 324 E.M1	N 324 M
120	260	55	610	620	2800	3200	13.2	N 324 T	N 324 ECP	N 324 E.TVP2	N 324 T
120	260	55	610	620	2800	3200	13.5	NJ 324 W	NJ 324 ECJ	NJ 324 E1	NJ 324 W
120	260	55	610	620	2800	3200	15.1	NJ 324 M	NJ 324 ECM	NJ 324 E.M1	NJ 324 M



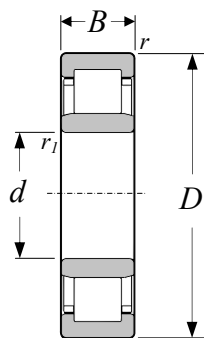
CYLINDRICAL ROLLER BEARINGS
Single Row

Table 86
Bore Diameter 120mm - 130mm

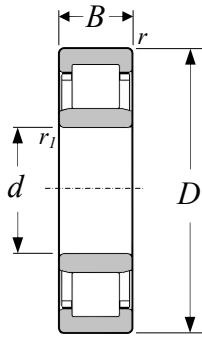
Principal Dimensions			Basic Load Ratings		Speed Ratings		Mass	Designations			
d	D	B	Dynamic	Static	Ref. Speed	Limiting Speed		Local	SKF	FAG	NSK
mm			C	C ₀	r/min		kg				
120	260	55	610	620	2800	5000	15.1	NJ 324 M	NJ 324 ECML	NJ 324 E.M1	NJ 324 M
120	260	55	610	620	2800	3200	13.5	NJ 324 T	NJ 324 ECP	NJ 324 E.TVP2	NJ 324 T
120	260	55	610	620	2800	3200	13.6	NU 324 W	NU 324 ECJ	NU 324 E1	NU 324 W
120	260	55	610	620	2800	3200	15.2	NU 324 M	NU 324 ECM	NU 324 E.M1	NU 324 M
120	260	55	610	620	2800	5000	15.2	NU 324 M	NU 324 ECML	NU 324 E.M1	NU 324 M
120	260	55	610	620	2800	5000	15.2	NU 324 M	NU 324 ECNML	NU 324 E.M1	NU 324 M
120	260	55	610	620	2800	3200	13.3	NU 324 T	NU 324 ECP	NU 324 E.TVP2	NU 324 T
120	260	55	610	620	2800	3200	13.3	NU 324 T	NU 324 ECPH	NU 324 E.TVP2	NU 324 T
120	260	55	610	620	2800	3200	13.7	NUP 324 W	NUP 324 ECJ	NUP 324 E1	NUP 324 W
120	260	55	610	620	2800	5000	13.7	NUP 324 M	NUP 324 ECML	NUP 324 E.M1	NUP 324 M
120	260	55	610	620	2800	3200	13.7	NUP 324 T	NUP 324 ECP	NUP 324 E.TVP2	NUP 324 T
120	260	86	915	1040	2800	3200	24.3	NJ 2324 M	NJ 2324 ECM	NJ 2324 E.M1	NJ 2324 M
120	260	86	915	1040	2800	4300	24.3	NJ 2324 M	NJ 2324 ECMA	NJ 2324 E.M1	NJ 2324 M
120	260	86	915	1040	2800	3200	24	NU 2324 M	NU 2324 ECM	NU 2324 E.M1	NU 2324 M
120	260	86	915	1040	2800	4300	24	NU 2324 M	NU 2324 ECMA	NU 2324 E.M1	NU 2324 M
120	260	86	915	1040	2800	4300	24.3	NUP 2324 M	NUP 2324 ECMA	NUP 2324 E.M1	NUP 2324 M
120	310	72	644	735	2400	2800	28	NU 424	NU 424	NU 424	NU 424
120	310	72	644	735	2400	2800	30.4	NU 424 M	NU 424 M	NU 424 E.M1	NU 424 M
130	200	33	165	224	3800	3800	3.8	NJ 1026 M	NJ 1026 M	NJ 1026 E.M1	NJ 1026 M
130	200	33	165	224	3800	3800	3.8	NU 1026 M	NU 1026 M	NU 1026 E.M1	NU 1026 M
130	200	33	165	224	3800	5600	3.8	NU 1026 M	NU 1026 ML	NU 1026 E.M1	NU 1026 M
130	200	42	297	440	3200	4800	4.6	NU 2026 M	NU 2026 ECMA	NU 2026 E.M1	NU 2026 M
130	230	40	415	455	3200	3400	6.3	N 226 T	N 226 ECP	N 226 E.TVP2	N 226 T
130	230	40	415	455	3200	3400	6.85	NJ 226 W	NJ 226 ECJ	NJ 226 E1	NJ 226 W
130	230	40	415	455	3200	3400	6.6	NJ 226 M	NJ 226 ECM	NJ 226 E.M1	NJ 226 M
130	230	40	415	455	3200	5300	6.85	NJ 226 M	NJ 226 ECML	NJ 226 E.M1	NJ 226 M
130	230	40	415	455	3200	3400	6.6	NJ 226 T	NJ 226 ECP	NJ 226 E.TVP2	NJ 226 T
130	230	40	415	455	3200	3400	6.75	NU 226 W	NU 226 ECJ	NU 226 E1	NU 226 W
130	230	40	415	455	3200	3400	7.15	NU 226 M	NU 226 ECM	NU 226 E.M1	NU 226 M
130	230	40	415	455	3200	5300	7.15	NU 226 M	NU 226 ECML	NU 226 E.M1	NU 226 M
130	230	40	415	455	3200	3400	6.45	NU 226 T	NU 226 ECP	NU 226 E.TVP2	NU 226 T
130	230	40	415	455	3200	3400	7	NUP 226 W	NUP 226 ECJ	NUP 226 E1	NUP 226 W
130	230	40	415	455	3200	3400	7	NUP 226 M	NUP 226 ECM	NUP 226 E.M1	NUP 226 M
130	230	40	415	455	3200	5300	7	NUP 226 M	NUP 226 ECML	NUP 226 E.M1	NUP 226 M
130	230	40	415	455	3200	3400	6.75	NUP 226 T	NUP 226 ECP	NUP 226 E.TVP2	NUP 226 T
130	230	64	610	735	3200	5300	12.2	NJ 2226 M	NJ 2226 ECML	NJ 2226 E.M1	NJ 2226 M
130	230	64	610	735	3200	3400	12.2	NJ 2226 T	NJ 2226 ECP	NJ 2226 E.TVP2	NJ 2226 T
130	230	64	610	735	3200	5300	12	NU 2226 M	NU 2226 ECML	NU 2226 E.M1	NU 2226 M
130	230	64	610	735	3200	3400	10.5	NU 2226 T	NU 2226 ECP	NU 2226 E.TVP2	NU 2226 T
130	230	64	610	735	3200	5300	12.2	NUP 2226 M	NUP 2226 ECML	NUP 2226 E.M1	NUP 2226 M
130	280	58	720	750	2400	3000	19.5	N 326 M	N 326 ECM	N 326 E.M1	N 326 M
130	280	58	720	750	2400	3000	18.5	N 326 T	N 326 ECP	N 326 E.TVP2	N 326 T
130	280	58	720	750	2400	3000	18.4	NJ 326 W	NJ 326 ECJ	NJ 326 E1	NJ 326 W
130	280	58	720	750	2400	3000	19.4	NJ 326 M	NJ 326 ECM	NJ 326 E.M1	NJ 326 M
130	280	58	720	750	2400	4500	19.4	NJ 326 M	NJ 326 ECML	NJ 326 E.M1	NJ 326 M
130	280	58	720	750	2400	3000	18.4	NJ 326 T	NJ 326 ECP	NJ 326 E.TVP2	NJ 326 T
130	280	58	720	750	2400	3000	18	NU 326 W	NU 326 ECJ	NU 326 E1	NU 326 W
130	280	58	720	750	2400	3000	19	NU 326 M	NU 326 ECM	NU 326 E.M1	NU 326 M
130	280	58	720	750	2400	4500	19	NU 326 M	NU 326 ECML	NU 326 E.M1	NU 326 M
130	280	58	720	750	2400	3000	16.5	NU 326 T	NU 326 ECP	NU 326 E.TVP2	NU 326 T

CYLINDRICAL ROLLER BEARINGS
Single Row

Table 87
Bore Diameter 130mm - 150mm



Principal Dimensions			Basic Load Ratings		Speed Ratings		Mass	Designations			
d	D	B	Dynamic	Static	Ref. Speed	Limiting Speed		Local	SKF	FAG	NSK
mm			C	C ₀	r/min		kg				
130	280	58	720	750	2400	3800	19.6	NUP 326 M	NUP 326 ECML	NUP 326 E.M1	NUP 326 M
130	280	58	720	750	2400	3000	19.6	NUP 326 T	NUP 326 ECP	NUP 326 E.TVP2	NUP 326 T
130	280	93	1060	1250	2400	3800	30.5	NJ 2326 M	NJ 2326 ECMA	NJ 2326 E.M1	NJ 2326 M
130	280	93	1060	1250	2400	3800	30.5	NJ 2326 T	NJ 2326 ECPA	NJ 2326 E.TVP2	NJ 2326 T
130	280	93	1060	1250	2400	3800	30	NU 2326 M	NU 2326 ECMA	NU 2326 E.M1	NU 2326 M
130	280	93	1060	1250	2400	3800	31	NUP 2326 M	NUP 2326 ECMA	NUP 2326 E.M1	NUP 2326 M
140	210	33	172	245	3600	3600	4.05	NU 1028 M	NU 1028 M	NU 1028 E.M1	NU 1028 M
140	210	33	179	255	3600	5300	4.05	NU 1028 M	NU 1028 ML	NU 1028 E.M1	NU 1028 M
140	250	42	450	510	2800	3200	8.75	NJ 228 W	NJ 228 ECJ	NJ 228 E1	NJ 228 W
140	250	42	450	510	2800	3200	8.75	NJ 228 M	NJ 228 ECM	NJ 228 E.M1	NJ 228 M
140	250	42	450	510	2800	3200	8.75	NJ 228 M	NJ 228 ECML	NJ 228 E.M1	NJ 228 M
140	250	42	450	510	2800	3200	8.6	NU 228 W	NU 228 ECJ	NU 228 E1	NU 228 W
140	250	42	450	510	2800	3200	9.25	NU 228 M	NU 228 ECM	NU 228 E.M1	NU 228 M
140	250	42	450	510	2800	4800	9.25	NU 228 M	NU 228 ECML	NU 228 E.M1	NU 228 M
140	250	42	450	510	2800	3200	8.9	NUP 228 W	NUP 228 ECJ	NUP 228 E1	NUP 228 W
140	250	42	450	510	2800	3200	8.9	NUP 228 M	NUP 228 ECM	NUP 228 E.M1	NUP 228 M
140	250	42	450	510	2800	4800	8.9	NUP 228 M	NUP 228 ECML	NUP 228 E.M1	NUP 228 M
140	250	42	450	510	2800	3200	8.9	NUP 228 T	NUP 228 ECP	NUP 228 E.TVP2	NUP 228 T
140	250	68	655	830	2800	4800	15.3	NJ 2228 M	NJ 2228 ECML	NJ 2228 E.M1	NJ 2228 M
140	250	68	655	830	2800	4800	15	NU 2228 M	NU 2228 ECML	NU 2228 E.M1	NU 2228 M
140	250	68	655	830	2800	4800	15.6	NUP 2228 M	NUP 2228 ECML	NUP 2228 E.M1	NUP 2228 M
140	300	62	780	830	2400	2800	20.8	NJ 328 W	NJ 328 ECJ	NJ 328 E1	NJ 328 W
140	300	62	780	830	2400	2800	23	NJ 328 M	NJ 328 ECM	NJ 328 E.M1	NJ 328 M
140	300	62	780	830	2400	4300	23	NJ 328 M	NJ 328 ECML	NJ 328 E.M1	NJ 328 M
140	300	62	780	830	2400	4300	23	NJ 328 M	NJ 328 ECNML	NJ 328 E.M1	NJ 328 M
140	300	62	780	830	2400	2800	20.5	NU 328 W	NU 328 ECJ	NU 328 E1	NU 328 W
140	300	62	780	830	2400	2800	22.7	NU 328 M	NU 328 ECM	NU 328 E.M1	NU 328 M
140	300	62	780	830	2400	4300	22.7	NU 328 M	NU 328 ECML	NU 328 E.M1	NU 328 M
140	300	62	780	830	2400	2800	23	NUP 328 W	NUP 328 ECJ	NUP 328 E1	NUP 328 W
140	300	62	780	830	2400	2800	23.5	NUP 328 M	NUP 328 ECM	NUP 328 E.M1	NUP 328 M
140	300	62	780	830	2400	4300	23.5	NUP 328 M	NUP 328 ECML	NUP 328 E.M1	NUP 328 M
140	300	102	1200	1430	2400	3600	37.5	NJ 2328 M	NJ 2328 ECMA	NJ 2328 E.M1	NJ 2328 M
140	300	102	1200	1430	2400	3600	37	NU 2328 M	NU 2328 ECMA	NU 2328 E.M1	NU 2328 M
140	300	102	1200	1430	2400	3600	37.5	NUP 2328 M	NUP 2328 ECMA	NUP 2328 E.M1	NUP 2328 M
150	225	35	198	290	3200	5000	4.85	NJ 1030 M	NJ 1030 ML	NJ 1030 E.M1	NJ 1030 M
150	225	35	194	275	3200	3200	4.85	NU 1030 M	NU 1030 M	NU 1030 E.M1	NU 1030 M
150	225	35	198	290	3200	5000	4.85	NU 1030 M	NU 1030 ML	NU 1030 E.M1	NU 1030 M
150	270	45	510	600	2600	2800	10.5	NJ 230 W	NJ 230 ECJ	NJ 230 E1	NJ 230 W
150	270	45	510	600	2600	2800	10.8	NJ 230 M	NJ 230 ECM	NJ 230 E.M1	NJ 230 M
150	270	45	510	600	2600	4500	10.8	NJ 230 M	NJ 230 ECML	NJ 230 E.M1	NJ 230 M
150	270	45	510	600	2600	2800	10.3	NU 230 W	NU 230 ECJ	NU 230 E1	NU 230 W
150	270	45	510	600	2600	2800	10.6	NU 230 M	NU 230 ECM	NU 230 E.M1	NU 230 M
150	270	45	510	600	2600	4500	10.6	NU 230 M	NU 230 ECML	NU 230 E.M1	NU 230 M
150	270	45	510	600	2600	2800	10.7	NUP 230 W	NUP 230 ECJ	NUP 230 E1	NUP 230 W
150	270	45	510	600	2600	2800	11	NUP 230 M	NUP 230 ECM	NUP 230 E.M1	NUP 230 M
150	270	45	510	600	2600	4500	11	NUP 230 M	NUP 230 ECML	NUP 230 E.M1	NUP 230 M
150	270	73	735	930	2600	2800	18.7	NJ 2230 M	NJ 2230 ECM	NJ 2230 E.M1	NJ 2230 M
150	270	73	735	930	2600	2800	18.5	NU 2230 M	NU 2230 ECM	NU 2230 E.M1	NU 2230 M
150	320	65	900	965	2200	3400	27.7	NJ 330 M	NJ 330 ECM	NJ 330 E.M1	NJ 330 M
150	320	65	900	965	2200	2600	27.7	NJ 330 M	NJ 330 ECMA	NJ 330 E.M1	NJ 330 M



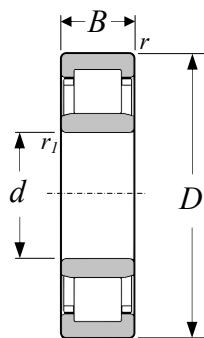
CYLINDRICAL ROLLER BEARINGS
Single Row

Table 88
Bore Diameter 150mm - 180mm

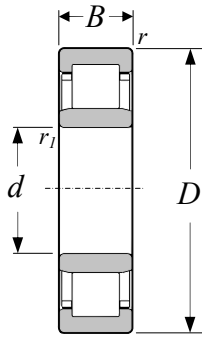
Principal Dimensions			Basic Load Ratings		Speed Ratings		Mass	Designations			
d	D	B	Dynamic	Static	Ref. Speed	Limiting Speed		Local	SKF	FAG	NSK
mm			C	C ₀	r/min		kg				
150	320	65	900	965	2200	2600	27.5	NU 330 M	NU 330 ECM	NU 330 E.M1	NU 330 M
150	320	65	900	965	2200	3400	27.5	NU 330 M	NU 330 ECMA	NU 330 E.M1	NU 330 M
150	320	108	1370	1630	2200	3400	46	NJ 2330 M	NJ 2330 ECMA	NJ 2330 E.M1	NJ 2330 M
150	320	108	1370	1630	2200	3400	45.5	NU 2330 M	NU 2330 ECMA	NU 2330 E.M1	NU 2330 M
150	320	108	1370	1630	2200	3400	46.5	NUP 2330 M	NUP 2330 ECMA	NUP 2330 E.M1	NUP 2330 M
160	240	38	229	325	3000	4800	6.1	NJ 1032 M	NJ 1032 ML	NJ 1032 E.M1	NJ 1032 M
160	240	38	229	325	3000	3000	5.95	NU 1032 M	NU 1032 M	NU 1032 E.M1	NU 1032 M
160	240	38	229	325	3000	4800	5.95	NU 1032 M	NU 1032 ML	NU 1032 E.M1	NU 1032 M
160	240	48	418	670	2600	4000	7.9	NU 2032 M	NU 2032 ECMA	NU 2032 E.M1	NU 2032 M
160	290	48	585	680	2400	2600	14.3	N 232 M	N 232 ECM	N 232 E.M1	N 232 M
160	290	48	585	680	2400	2600	14.4	NJ 232 M	NJ 232 ECM	NJ 232 E.M1	NJ 232 M
160	290	48	585	680	2400	4000	14.4	NJ 232 M	NJ 232 ECML	NJ 232 E.M1	NJ 232 M
160	290	48	585	680	2400	2600	14.2	NU 232 M	NU 232 ECM	NU 232 E.M1	NU 232 M
160	290	48	585	680	2400	4000	14.2	NU 232 M	NU 232 ECML	NU 232 E.M1	NU 232 M
160	290	48	585	680	2400	2600	14.5	NUP 232 M	NUP 232 ECM	NUP 232 E.M1	NUP 232 M
160	290	48	585	680	2400	4000	14.5	NUP 232 M	NUP 232 ECML	NUP 232 E.M1	NUP 232 M
160	290	80	930	1200	2400	3400	24.7	NJ 2232 M	NJ 2232 ECMA	NJ 2232 E.M1	NJ 2232 M
160	290	80	930	1200	2400	3400	24.2	NU 2232 M	NU 2232 ECMA	NU 2232 E.M1	NU 2232 M
160	290	80	930	1200	2400	3400	25	NUP 2232 M	NUP 2232 ECMA	NUP 2232 E.M1	NUP 2232 M
160	340	68	1000	1080	2000	2400	32.2	NJ 332 M	NJ 332 ECM	NJ 332 E.M1	NJ 332 M
160	340	68	1000	1080	2000	3200	32.2	NJ 332 M	NJ 332 ECMA	NJ 332 E.M1	NJ 332 M
160	340	68	1000	1080	2000	2400	32	NU 332 M	NU 332 ECM	NU 332 E.M1	NU 332 M
160	340	68	1000	1080	2000	3200	32	NU 332 M	NU 332 ECMA	NU 332 E.M1	NU 332 M
160	340	68	1000	1080	2000	3200	32.5	NUP 332 M	NUP 332 ECMA	NUP 332 E.M1	NUP 332 M
160	340	114	1250	1730	2000	3200	53.5	NJ 2332 M	NJ 2332 ECMA	NJ 2332 E.M1	NJ 2332 M
160	340	114	1250	1730	2000	3200	53	NU 2332 M	NU 2332 ECMA	NU 2332 E.M1	NU 2332 M
170	260	42	275	400	2800	4300	8.15	NJ 1034 M	NJ 1034 ML	NJ 1034 E.M1	NJ 1034 M
170	260	42	275	400	2800	2800	8	NU 1034 M	NU 1034 M	NU 1034 E.M1	NU 1034 M
170	260	42	275	400	2800	4300	8	NU 1034 M	NU 1034 ML	NU 1034 E.M1	NU 1034 M
170	260	54	473	735	2400	3600	11	NU 2034 M	NU 2034 ECMA	NU 2034 E.M1	NU 2034 M
170	310	52	695	815	2400	2400	18.7	NJ 234 M	NJ 234 ECM	NJ 234 E.M1	NJ 234 M
170	310	52	695	815	2400	3200	18.7	NJ 234 M	NJ 234 ECMA	NJ 234 E.M1	NJ 234 M
170	310	52	695	815	2400	2400	18.2	NU 234 M	NU 234 ECM	NU 234 E.M1	NU 234 M
170	310	52	695	815	2400	3200	18.2	NU 234 M	NU 234 ECMA	NU 234 E.M1	NU 234 M
170	310	52	695	815	2400	3200	20	NUP 234 M	NUP 234 ECM	NUP 234 E.M1	NUP 234 M
170	310	52	695	815	2400	3200	20	NUP 234 M	NUP 234 ECMA	NUP 234 E.M1	NUP 234 M
170	310	86	1060	1430	2400	3200	30	NU 2234 M	NU 2234 ECMA	NU 2234 E.M1	NU 2234 M
170	360	72	952	1180	1700	2200	38.5	N 334 M	N 334 ECM	N 334 E.M1	N 334 M
170	360	72	952	1180	1700	2200	37.5	NU 334 M	NU 334 ECM	NU 334 E.M1	NU 334 M
170	360	72	952	1180	1700	3000	37.5	NU 334 M	NU 334 ECMA	NU 334 E.M1	NU 334 M
170	360	72	809	1040	1900	2200	38.5	NU 334 M	NU 334 M	NU 334 E.M1	NU 334 M
170	360	120	1450	2040	1700	3000	63	NJ 2334 M	NJ 2334 ECMA	NJ 2334 E.M1	NJ 2334 M
170	360	120	1450	2040	1700	3000	63	NU 2334 M	NU 2334 ECMA	NU 2334 E.M1	NU 2334 M
180	280	46	336	475	2600	4000	10.5	NJ 1036 M	NJ 1036 ML	NJ 1036 E.M1	NJ 1036 M
180	280	46	336	475	2600	2600	10.5	NU 1036 M	NU 1036 M	NU 1036 E.M1	NU 1036 M
180	280	46	336	475	2600	4000	10.5	NU 1036 M	NU 1036 ML	NU 1036 E.M1	NU 1036 M
180	320	52	720	850	2200	3200	19.3	NJ 236 M	NJ 236 ECMA	NJ 236 E.M1	NJ 236 M
180	320	52	720	850	2200	3200	19.1	NU 236 M	NU 236 ECM	NU 236 E.M1	NU 236 M
180	320	52	720	850	2200	3200	19.1	NU 236 M	NU 236 ECMA	NU 236 E.M1	NU 236 M
180	320	52	720	850	2200	3200	21	NUP 236 M	NUP 236 ECMA	NUP 236 E.M1	NUP 236 M

CYLINDRICAL ROLLER BEARINGS
Single Row

Table 89
Bore Diameter 180mm - 220mm



Principal Dimensions			Basic Load Ratings		Speed Ratings		Mass	Designations			
d	D	B	Dynamic	Static	Ref. Speed	Limiting Speed					
mm			C	C ₀	r/min		kg	Local	SKF	FAG	NSK
180	320	86	1100	1430	2200	2400	32	NJ 2236 M	NJ 2236 ECM	NJ 2236 E.M1	NJ 2236 M
180	320	86	1100	1430	2200	3200	32	NJ 2236 M	NJ 2236 ECMA	NJ 2236 E.M1	NJ 2236 M
180	320	86	1100	1430	2200	2400	31.5	NU 2236 M	NU 2236 ECM	NU 2236 E.M1	NU 2236 M
180	320	86	1100	1430	2200	3200	31.5	NU 2236 M	NU 2236 ECMA	NU 2236 E.M1	NU 2236 M
180	380	75	1020	1290	1600	2200	45	NU 336 M	NU 336 ECM	NU 336 E.M1	NU 336 M
180	380	126	1610	2240	1600	2800	71.5	NU 2336 M	NU 2336 ECMA	NU 2336 E.M1	NU 2336 M
180	440	95	1250	1600	1600	2400	80	NUP 436 M	NUP 436 MA	NUP 436 E.M1	NUP 436 M
190	260	33	251	400	2600	4000	5.5	NJ 1938 M	NJ 1938 ECML	NJ 1938 E.M1	NJ 1938 M
190	290	46	347	500	2600	3800	11	NJ 1038 M	NJ 1038 ML	NJ 1038 E.M1	NJ 1038 M
190	290	46	347	500	2600	3800	11	NU 1038 M	NU 1038 ML	NU 1038 E.M1	NU 1038 M
190	340	55	800	965	2000	2200	24.5	NJ 238 M	NJ 238 ECM	NJ 238 E.M1	NJ 238 M
190	340	55	800	965	2000	3000	24.5	NJ 238 M	NJ 238 ECMA	NJ 238 E.M1	NJ 238 M
190	340	55	800	965	2000	2200	24	NU 238 M	NU 238 ECM	NU 238 E.M1	NU 238 M
190	340	55	800	965	2000	3000	24	NU 238 M	NU 238 ECMA	NU 238 E.M1	NU 238 M
190	340	55	800	965	2000	2200	25	NUP 238 M	NUP 238 ECM	NUP 238 E.M1	NUP 238 M
190	340	55	800	965	2000	3000	25	NUP 238 M	NUP 238 ECMA	NUP 238 E.M1	NUP 238 M
190	340	92	1220	1600	2000	3000	39	NU 2238 M	NU 2238 ECM	NU 2238 E.M1	NU 2238 M
190	340	92	1220	1600	2000	3000	39	NU 2238 M	NU 2238 ECMA	NU 2238 E.M1	NU 2238 M
190	400	78	1140	1500	1500	200	50	NU 338 M	NU 338 ECM	NU 338 E.M1	NU 338 M
190	400	132	1830	2550	1500	2600	82.5	NU 2338 M	NU 2338 ECMA	NU 2338 E.M1	NU 2338 M
200	250	30	183	345	2800	3600	3.55	NJ 2840 M	NJ 2840 ECMA	NJ 2840 E.M1	NJ 2840 M
200	280	38	341	540	2600	3800	7.4	NJ 1940 M	NJ 1940 ECMP	NJ 1940 E.M1	NJ 1940 M
200	310	51	380	570	2400	2400	14.5	NU 1040 M	NU 1040 M	NU 1040 E.M1	NU 1040 M
200	310	51	380	570	2400	3000	14.5	NU 1040 M	NU 1040 MA	NU 1040 E.M1	NU 1040 M
200	360	58	850	1020	1900	2200	29	NJ 240 M	NJ 240 ECM	NJ 240 E.M1	NJ 240 M
200	360	58	850	1020	1900	2800	29	NJ 240 M	NJ 240 ECMA	NJ 240 E.M1	NJ 240 M
200	360	58	850	1020	1900	2200	28.5	NU 240 M	NU 240 ECM	NU 240 E.M1	NU 240 M
200	360	58	850	1020	1900	2800	28.5	NU 240 M	NU 240 ECMA	NU 240 E.M1	NU 240 M
200	360	58	850	1020	1900	2200	29.5	NUP 240 M	NUP 240 ECM	NUP 240 E.M1	NUP 240 M
200	360	58	850	1020	1900	2800	29.5	NUP 240 M	NUP 240 ECMA	NUP 240 E.M1	NUP 240 M
200	360	98	1370	1800	1900	2800	46	NJ 2240 M	NJ 2240 ECMA	NJ 2240 E.M1	NJ 2240 M
200	360	98	1370	1800	1900	2800	46	NU 2240 M	NU 2240 ECMA	NU 2240 E.M1	NU 2240 M
200	360	128	1540	2450	1600	2400	59	NU 3240 M	NU 3240 ECM	NU 3240 E.M1	NU 3240 M
200	420	80	1230	1630	1400	2400	57.5	NU 340 M	NU 340 ECMA	NU 340 E.M1	NU 340 M
200	420	138	1980	2800	1400	2400	97	NJ 2340 M	NJ 2340 ECMA	NJ 2340 E.M1	NJ 2340 M
200	420	138	1980	2800	1400	2400	96.5	NU 2340 M	NU 2340 ECMA	NU 2340 E.M1	NU 2340 M
220	300	38	336	560	2400	3000	8.3	NJ 1944 M	NJ 1944 ECMA	NJ 1944 E.M1	NJ 1944 M
220	300	48	457	830	2400	3600	10	NU 2944 M	NU 2944 M2P	NU 2944 E.M1	NU 2944 M
220	340	56	495	735	2200	3200	19	NJ 1044 M	NJ 1044 MP	NJ 1044 E.M1	NJ 1044 M
220	340	56	495	735	2200	2200	18.5	NU 1044 M	NU 1044 M	NU 1044 E.M1	NU 1044 M
220	340	56	495	735	2200	2800	18.5	NU 1044 M	NU 1044 MA	NU 1044 E.M1	NU 1044 M
220	400	65	1060	1290	1600	1900	38.2	NJ 244 M	NJ 244 ECM	NJ 244 E.M1	NJ 244 M
220	400	65	1060	1290	1600	2400	38.2	NJ 244 M	NJ 244 ECMA	NJ 244 E.M1	NJ 244 M
220	400	65	1060	1290	1600	1900	38	NU 244 M	NU 244 ECM	NU 244 E.M1	NU 244 M
220	400	65	1060	1290	1600	2400	38	NU 244 M	NU 244 ECMA	NU 244 E.M1	NU 244 M
220	400	65	1060	1290	1600	1900	38.5	NUP 244 M	NUP 244 ECM	NUP 244 E.M1	NUP 244 M
220	400	65	1060	1290	1600	2400	38.5	NUP 244 M	NUP 244 ECMA	NUP 244 E.M1	NUP 244 M
220	400	108	1570	2280	1600	2400	62.5	NU 2244 M	NU 2244 ECMA	NU 2244 E.M1	NU 2244 M
220	460	88	1210	1630	1500	1700	73.5	NJ 344 M	NJ 344 M	NJ 344 E.M1	NJ 344 M
220	460	88	1210	1630	1500	1700	72.5	NU 344 M	NU 344 M	NU 344 E.M1	NU 344 M



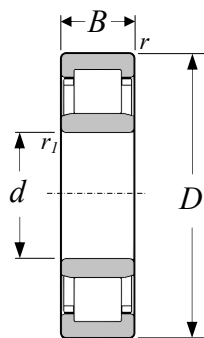
CYLINDRICAL ROLLER BEARINGS
Single Row

Table 90
Bore Diameter 220mm - 320mm

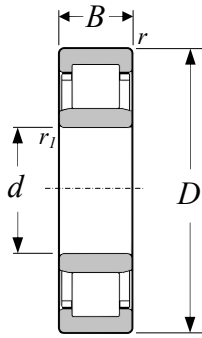
Principal Dimensions			Basic Load Ratings		Speed Ratings		Mass	Designations			
d	D	B	Dynamic	Static	Ref. Speed	Limiting Speed		Local	SKF	FAG	NSK
mm			C	C ₀	r/min		kg				
220	460	145	2380	3450	1300	2200	120	NU 2344 M	NU 2344 ECMA	NU 2344 E.M1	NU 2344 M
220	460	145	2380	3450	1300	2800	120	NU 2344 M	NU 2344 ECMP	NU 2344 E.M1	NU 2344 M
240	300	28	201	365	2400	3600	4.5	NUZ 1848 M	NUZ 1848 ECMA	NUZ 1848 E.M1	NUZ 1848 M
240	360	56	523	800	2000	2600	20	NU 1048 M	NU 1048 MA	NU 1048 E.M1	NU 1048 M
240	440	72	952	1370	1600	2200	52.5	NJ 248 M	NJ 248 MA	NJ 248 E.M1	NJ 248 M
240	440	72	952	1370	1600	2200	51.5	NU 248 M	NU 248 MA	NU 248 E.M1	NU 248 M
240	440	72	952	1370	1600	2200	53.5	NUP 248 M	NUP 248 MA	NUP 248 E.M1	NUP 248 M
240	440	120	1450	2360	1500	2200	85	NJ 2248 M	NJ 2248 MA	NJ 2248 E.M1	NJ 2248 M
240	440	120	1450	2360	1500	2200	84	NU 2248 M	NU 2248 MA	NU 2248 E.M1	NU 2248 M
240	500	95	1450	2000	1300	2000	98.5	NJ 348 M	NJ 348 MA	NJ 348 E.M1	NJ 348 M
240	500	95	1450	2000	1300	1600	94.5	NU 348 M	NU 348 M	NU 348 E.M1	NU 348 M
240	500	155	2600	3650	1200	2000	155	NU 2348 M	NU 2348 ECMA	NU 2348 E.M1	NU 2348 M
260	400	65	627	965	1800	2800	30	NJ 1052 M	NJ 1052 MP	NJ 1052 E.M1	NJ 1052 M
260	400	65	627	965	1800	1800	29.5	NU 1052 M	NU 1052 M	NU 1052 E.M1	NU 1052 M
260	400	65	627	965	1800	2400	29.5	NU 1052 M	NU 1052 MA	NU 1052 E.M1	NU 1052 M
260	400	104	1420	2320	1500	2400	49.5	NU 3052 M	NU 3052 ECMA	NU 3052 E.M1	NU 3052 M
260	440	144	2090	3450	1300	2200	98	NU 3152 M	NU 3152 ECMA	NU 3152 E.M1	NU 3152 M
260	480	80	1170	1700	1400	2000	70	NJ 252 M	NJ 252 MA	NJ 252 E.M1	NJ 252 M
260	480	80	1170	1700	1400	2000	68.5	NU 252 M	NU 252 MA	NU 252 E.M1	NU 252 M
260	480	80	1170	1700	1400	2000	72	NUP 252 M	NUP 252 MA	NUP 252 E.M1	NUP 252 M
260	480	130	1790	3000	1300	2000	110	N 2252 M	N 2252 MB	N 2252 E.M1	N 2252 M
260	480	130	1790	3000	1300	2000	112	NJ 2252 M	NJ 2252 MA	NJ 2252 E.M1	NJ 2252 M
260	480	130	1790	3000	1400	2000	110	NU 2252 M	NU 2252 MA	NU 2252 E.M1	NU 2252 M
260	540	102	1940	2700	1100	1800	125	NU 352 M	NU 352 ECMA	NU 352 E.M1	NU 352 M
260	540	165	3190	4500	1100	1800	190	NU 2352 M	NU 2352 ECMA	NU 2352 E.M1	NU 2352 M
280	420	65	660	1060	1700	2200	31.5	NU 1056 M	NU 1056 MA	NU 1056 E.M1	NU 1056 M
280	420	82	1230	2160	1400	2200	40	NU 2056 M	NU 2056 ECMA	NU 2056 E.M1	NU 2056 M
280	460	146	2290	3900	1200	2000	105	NU 3156 M	NU 3156 EMA/HB1	NU 3156 E.M1	NU 3156 M
280	500	80	1140	1700	1400	1900	73	NJ 256 M	NJ 256 MA	NJ 256 E.M1	NJ 256 M
280	500	80	1140	1700	1400	1900	71.5	NU 256 M	NU 256 MA	NU 256 E.M1	NU 256 M
280	500	130	2200	3250	1200	1900	115	NU 2256 M	NU 2256 ECMA	NU 2256 E.M1	NU 2256 M
280	580	175	2700	4300	1000	1700	230	NU 2356 M	NU 2356 MA	NU 2356 E.M1	NU 2356 M
300	380	48	473	980	1700	1700	14	NJ 2860 M	NJ 2860 ECM	NJ 2860 E.M1	NJ 2860 M
300	380	48	473	980	1700	1700	14	NU 2860 M	NU 2860 ECM	NU 2860 E.M1	NU 2860 M
300	460	74	858	1370	1500	2000	47	NJ 1060 M	NJ 1060 MA	NJ 1060 E.M1	NJ 1060 M
300	460	74	858	1370	1500	2000	46.5	NU 1060 M	NU 1060 MA	NU 1060 E.M1	NU 1060 M
300	460	95	1510	2750	1300	2000	59.5	NU 2060 M	NU 2060 ECMA	NU 2060 E.M1	NU 2060 M
300	540	85	1420	2120	1300	1400	89.5	NU 260 M	NU 260 M	NU 260 E.M1	NU 260 M
300	540	85	1420	2120	1300	1800	89.5	NU 260 M	NU 260 MA	NU 260 E.M1	NU 260 M
300	540	140	2090	3450	1200	1800	145	NU 2260 M	NU 2260 MA	NU 2260 E.M1	NU 2260 M
300	620	185	4020	5850	950	1600	270	NU 2360 M	NU 2360 ECMA	NU 2360 E.M1	NU 2360 M
320	400	38	369	710	1600	2400	11	NU 1864 M	NU 1864 ECMP	NU 1864 E.M1	NU 1864 M
320	400	38	369	710	1600	2400	11.7	NUP 1864 M	NUP 1864 ECMP	NUP 1864 E.M1	NUP 1864 M
320	400	48	495	1060	1600	2400	14.5	NU 2864 M	NU 2864 ECMA	NU 2864 E.M1	NU 2864 M
320	440	56	693	1200	1500	2000	27	NU 1964 M	NU 1964 ECMA	NU 1964 E.M1	NU 1964 M
320	480	74	880	1430	1400	1400	49	NJ 1064 M	NJ 1064 MA	NJ 1064 E.M1	NJ 1064 M
320	480	74	880	1430	1400	1400	48.5	NU 1064 M	NU 1064 MA	NU 1064 E.M1	NU 1064 M
320	480	74	880	1430	1400	2200	48.5	NU 1064 M	NU 1064 MP	NU 1064 E.M1	NU 1064 M
320	480	95	1450	265	1200	1900	62.5	NU 2064 M	NU 2064 ECMA	NU 2064 E.M1	NU 2064 M
320	480	121	1830	3200	1200	1900	75	NU 3064 M	NU 3064 ECM	NU 3064 E.M1	NU 3064 M

CYLINDRICAL ROLLER BEARINGS
Single Row

Table 91
Bore Diameter 320mm - 440mm



Principal Dimensions			Basic Load Ratings		Speed Ratings		Mass	Designations			
d	D	B	Dynamic	Static	Ref. Speed	Limiting Speed		Local	SKF	FAG	NSK
mm			C	C ₀			kg				
			kN		r/min						
320	540	176	3140	5400	1000	1700	175	NU 3164 M	NU 3164 ECMA	NU 3164 E.M1	NU 3164 M
320	580	92	1610	2450	1200	1600	115	NU 264 M	NU 264 MA	NU 264 E.M1	NU 264 M
320	580	150	3190	5000	1000	1600	190	NJ 2264 M	NJ 2264 ECMA	NJ 2264 E.M1	NJ 2264 M
320	580	150	3190	5000	1000	1600	180	NU 2264 M	NU 2264 ECMA	NU 2264 E.M1	NU 2264 M
340	420	48	512	1120	1500	2000	15	NJ 2868 M	NJ 2868 ECMA	NJ 2868 E.M1	NJ 2868 M
340	460	56	682	1200	1400	1900	27.5	NU 1968 M	NU 1968 ECMA	NU 1968 E.M1	NU 1968 M
340	460	72	1020	2040	1400	1900	37	NJ 2968 M	NJ 2968 ECMA	NJ 2968 E.M1	NJ 2968 M
340	460	72	809	1660	1400	1400	36	NU 2968 M	NU 2968 M	NU 2968 E.M1	NU 2968 M
340	520	82	1080	1760	1300	1700	68	NJ 1068 M	NJ 1068 MA	NJ 1068 E.M1	NJ 1068 M
340	520	82	1080	1760	1300	1700	65	NU 1068 M	NU 1068 MA	NU 1068 E.M1	NU 1068 M
340	580	190	3190	5700	950	1600	210	NU 3168 M	NU 3168 ECMA	NU 3168 E.M1	NU 3168 M
340	620	165	2640	4500	1000	1500	220	NU 2268 M	NU 2268 MA	NU 2268 E.M1	NU 2268 M
360	540	82	1100	1830	1300	1600	67.5	NU 1072 M	NU 1072 MA	NU 1072 E.M1	NU 1072 M
360	540	82	1100	1830	1300	1900	67.5	NU 1072 M	NU 1072 MP	NU 1072 E.M1	NU 1072 M
360	540	106	1940	3600	1100	1600	88.5	NU 2072 M	NU 2072 ECMA	NU 2072 E.M1	NU 2072 M
360	600	192	3410	5700	900	1500	225	NU 3172 M	NU 3172 ECMA	NU 3172 E.M1	NU 3172 M
360	650	170	2920	4900	950	1400	250	NU 2272 M	NU 2272 MA	NU 2272 E.M1	NU 2272 M
360	750	224	5010	8150	850	1300	510	NU 2372 M	NU 2372 ECMA	NU 2372 E.M1	NU 2372 M
380	480	46	539	1060	1300	1300	23	NU 1876 M	NU 1876 ECM	NU 1876 E.M1	NU 1876 M
380	480	46	539	1060	1300	1300	23	NUP 1876 M	NUP 1876 ECM	NUP 1876 E.M1	NUP 1876 M
380	560	82	1140	1930	1200	1600	73	NJ 1076 M	NJ 1076 MA	NJ 1076 E.M1	NJ 1076 M
380	560	82	1140	1930	1200	1600	71	NU 1076 M	NU 1076 MA	NU 1076 E.M1	NU 1076 M
380	560	106	1980	3750	1000	1600	92.5	NU 2076 M	NU 2076 ECMA	NU 2076 E.M1	NU 2076 M
380	560	135	2380	4750	1000	1800	115	NU 3076 M	NU 3076 ECMP	NU 3076 E.M1	NU 3076 M
380	680	175	3960	6400	850	1300	275	NU 2276 M	NU 2276 ECMA	NU 2276 E.M1	NU 2276 M
400	500	46	572	1180	1300	1900	21.8	NJ 1880 M	NJ 1880 MP	NJ 1880 E.M1	NJ 1880 M
400	500	46	572	1180	1300	1900	21.5	NU 1880 M	NU 1880 MP	NU 1880 E.M1	NU 1880 M
400	540	65	952	1730	1200	1600	41	NU 1980 M	NU 1980 ECMA	NU 1980 E.M1	NU 1980 M
400	540	82	1400	2850	1200	1600	57	NU 2980 M	NU 2980 ECMA	NU 2980 E.M1	NU 2980 M
400	540	82	1190	2500	1200	1600	54.5	NU 2980 M	NU 2980 MA	NU 2980 E.M1	NU 2980 M
400	600	90	1380	2320	1100	1500	92.5	NU 1080 M	NU 1080 MA	NU 1080 E.M1	NU 1080 M
400	600	90	1380	2320	1100	1500	92	NU 1080 M	NU 1080 N2MA	NU 1080 E.M1	NU 1080 M
400	600	118	2200	4750	950	1400	120	NU 2080 M	NU 2080 ECMA	NU 2080 E.M1	NU 2080 M
400	600	148	2810	5500	950	1400	175	NU 3080 M	NU 3080 MA6	NU 3080 E.M1	NU 3080 M
420	520	46	550	1120	1200	1600	20.5	NJ 1884 M	NJ 1884 MA6	NJ 1884 E.M1	NJ 1884 M
420	520	46	550	1120	1200	1600	20	NU 1884 M	NU 1884 MA	NU 1884 E.M1	NU 1884 M
420	520	75	935	2240	1100	1600	33	NJ 3884 M	NJ 3884 MA	NJ 3884 E.M1	NJ 3884 M
420	560	65	968	1800	1100	1500	48	NJ 1984 M	NJ 1984 ECMA	NJ 1984 E.M1	NJ 1984 M
420	560	82	1210	2550	1100	1500	59	NU 2984 M	NU 2984 MA	NU 2984 E.M1	NU 2984 M
420	620	90	1420	2450	1100	1400	96	NU 1084 M	NU 1084 MA	NU 1084 E.M1	NU 1084 M
420	620	118	2460	4750	900	1400	125	NU 2084 M	NU 2084 ECMA	NU 2084 E.M1	NU 2084 M
420	620	150	2920	5400	900	1400	160	NF 3084 M	NF 3084 ECMB	NF 3084 E.M1	NF 3084 M
420	620	150	2920	5400	900	1400	160	NU 3084 M	NU 3084 ECMA	NU 3084 E.M1	NU 3084 M
420	700	224	4950	9000	750	1300	380	NU 3184 M	NU 3184 ECMA/HB1	NU 3184 E.M1	NU 3184 M
440	540	60	809	1900	1100	1500	34	NU 2888 M	NU 2888 ECMA	NU 2888 E.M1	NU 2888 M
440	600	74	1060	2000	1100	1400	64	NU 1988 M	NU 1988 MA	NU 1988 E.M1	NU 1988 M
440	600	95	1720	3600	1100	1400	84	NJ 2988 M	NJ 2988 ECM/HB1	NJ 2988 E.M1	NJ 2988 M
440	600	118	1980	4250	900	1100	105	NUP 3988 M	NUP 3988 ECM	NUP 3988 E.M1	NUP 3988 M
440	650	94	1510	2650	1000	1300	105	NU 1088 M	NU 1088 MA	NU 1088 E.M1	NU 1088 M
440	650	122	2550	4900	8500	1300	145	NU 2088 M	NU 2088 ECMA	NU 2088 E.M1	NU 2088 M



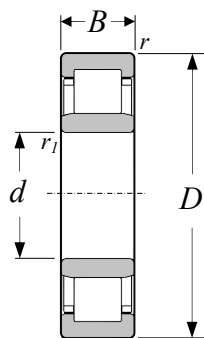
CYLINDRICAL ROLLER BEARINGS
Single Row

Table 92
Bore Diameter 440mm - 600mm

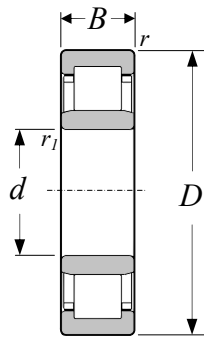
Principal Dimensions			Basic Load Ratings		Speed Ratings		Mass	Designations			
d	D	B	Dynamic	Static	Ref. Speed	Limiting Speed		Local	SKF	FAG	NSK
mm			C	C ₀	r/min		kg				
440	720	226	5120	9650	700	1200	395	NU 3188 M	NU 3188 ECMA/HB1	NU 3188 E.M1	NU 3188 M
460	580	56	825	1700	1100	1400	37	N 1892 M	N 1892 M2P/HB3	N 1892 E.M1	N 1892 M
460	580	72	1080	2400	1100	1400	48	NJ 2892 M	NJ 2892 ECMA	NJ 2892 E.M1	NJ 2892 M
460	620	95	1720	3600	1000	1300	89	NJ 2992 M	NJ 2992 ECMA	NJ 2992 E.M1	NJ 2992 M
460	680	100	1650	2850	950	1200	115	NU 1092 M	NU 1092 MA	NU 1092 E.M1	NU 1092 M
460	680	128	2810	5400	800	1200	165	NU 2092 M	NU 2092 ECMA	NU 2092 E.M1	NU 2092 M
460	680	163	3470	6400	800	1200	210	NU 3092 M	NU 3092 ECMA	NU 3092 E.M1	NU 3092 M
460	760	240	5280	9650	670	1100	455	NU 3192 M	NU 3192 ECMA/HB1	NU 3192 E.M1	NU 3192 M
460	830	165	4180	6800	750	1100	415	NU 1292 M	NU 1292 MA	NU 1292 E.M1	NU 1292 M
460	830	212	5120	8650	700	1100	530	NU 2292 M	NU 2292 MA	NU 2292 E.M1	NU 2292 M
480	600	56	765	1630	1000	1300	39.5	NJ 1896 M	NJ 1896 MA	NJ 1896 E.M1	NJ 1896 M
480	600	56	765	1630	1000	1300	39	NU 1896 M	NU 1896 MA	NU 1896 E.M1	NU 1896 M
480	600	72	1100	2450	1000	1300	47.5	NJ 2896 M	NJ 2896 ECMA	NJ 2896 E.M1	NJ 2896 M
480	650	78	1170	2240	950	1300	78	NJ 1996 M	NJ 1996 MA	NJ 1996 E.M1	NJ 1996 M
480	650	78	1170	2240	950	1300	75.5	NU 1996 M	NU 1996 MA	NU 1996 E.M1	NU 1996 M
480	700	100	1680	3000	900	1200	130	NU 1096 M	NU 1096 MA	NU 1096 E.M1	NU 1096 M
480	700	128	2860	5600	750	1200	170	NU 2096 M	NU 2096 ECMA	NU 2096 E.M1	NU 2096 M
480	790	248	5940	10800	630	1100	500	NU 3196 M	NU 3196 ECMA/HB1	NU 3196 E.M1	NU 3196 M
500	620	56	825	1730	950	950	39	NF 18/500 M	NF 18/500 ECM	NF 18/500 E.M1	NF 18/500 M
500	620	72	1170	2700	950	1300	50	NU 28/500 M	NU 28/500 ECMA	NU 28/500 E.M1	NU 28/500 M
500	670	78	1210	2360	900	1200	79	NU 19/500 M	NU 19/500 MA	NU 19/500 E.M1	NU 19/500 M
500	670	128	2330	5200	800	1200	130	N 39/500 M	N 39/500 ECMB/W33	N 39/500 E.M1	N 39/500 M
500	670	128	2330	5200	800	1200	130	NJ 39/500 M	NJ 39/500 ECMA	NJ 39/500 E.M1	NJ 39/500 M
500	720	100	1720	3100	900	1100	135	NU 10/500 M	NU 10/500 MA	NU 10/500 E.M1	NU 10/500 M
500	720	128	2920	5850	750	1100	180	NU 20/500 M	NU 20/500 ECMA	NU 20/500 E.M1	NU 20/500 M
500	720	167	4020	8000	750	1100	225	NU 30/500 M	NU 30/500 ECFR	NU 30/500 E.M1	NU 30/500 M
500	830	264	6440	12000	600	1000	595	NU 31/500 M	NU 31/500 ECMA/HB1	NU 31/500 E.M1	NU 31/500 M
500	920	185	5280	8500	670	950	585	NU 12/500 M	NU 12/500 MA	NU 12/500 E.M1	NU 12/500 M
530	650	72	1170	2750	900	1200	52	NJ 28/530 M	NJ 28/530 ECMA	NJ 28/530 E.M1	NJ 28/530 M
530	710	82	1570	3050	850	1100	94	NJ 19/530 M	NJ 19/530 ECM/HB1	NJ 19/530 E.M1	NJ 19/530 M
530	710	106	2380	5000	850	1100	120	NU 29/530 M	NU 29/530 ECMA	NU 29/530 E.M1	NU 29/530 M
530	780	112	2290	4050	800	1000	190	NU 10/530 M	NU 10/530 MA	NU 10/530 E.M1	NU 10/530 M
530	780	145	3740	7350	670	1000	255	NU 20/530 M	NU 20/530 ECMA	NU 20/530 E.M1	NU 20/530 M
530	870	272	7480	14600	560	950	660	NU 31/530 M	NU 31/530 ECMA/HB1	NU 31/530 E.M1	NU 31/530 M
560	680	56	809	1830	850	1100	44.5	NJ 18/560 M	NJ 18/560 ECMA6/343016	NJ 18/560 E.M1	NJ 18/560 M
560	750	85	1650	3250	800	1000	110	NU 19/560 M	NU 19/560 ECMA	NU 19/560 E.M1	NU 19/560 M
560	750	112	2460	5400	800	1000	145	NU 29/560 M	NU 29/560 ECMA	NU 29/560 E.M1	NU 29/560 M
560	820	115	2330	4250	750	1000	210	NJ 10/560 M	NJ 10/560 MA	NJ 10/560 E.M1	NJ 10/560 M
560	820	115	2330	4250	750	1000	210	NU 10/560 M	NU 10/560 MA	NU 10/560 E.M1	NU 10/560 M
560	820	150	3800	7650	630	1000	290	NU 20/560 M	NU 20/560 ECMA	NU 20/560 E.M1	NU 20/560 M
560	1030	206	7210	11200	560	800	805	NU 12/560 M	NU 12/560 MA	NU 12/560 E.M1	NU 12/560 M
600	730	60	897	2040	800	1000	50.5	NU 18/600 M	NU 18/600 ECMA/HB1	NU 18/600 E.M1	NU 18/600 M
600	730	78	1320	3450	750	1000	70	NU 28/600 M	NU 28/600 ECMA	NU 28/600 E.M1	NU 28/600 M
600	800	90	1900	3800	750	950	135	NF 19/600 M	NF 19/600 ECMB	NF 19/600 E.M1	NF 19/600 M
600	800	90	1900	3800	750	950	130	NU 19/600 M	NU 19/600 ECMA/HA1	NU 19/600 E.M1	NU 19/600 M
600	800	90	1900	3800	750	950	140	NUP 19/600 M	NUP 19/600 ECMA/HA1	NUP 19/600 E.M1	NUP 19/600 M
600	800	118	2920	6550	750	950	165	NU 29/600 M	NU 29/600 ECMA/HB1	NU 29/600 E.M1	NU 29/600 M
600	870	118	2750	5100	700	900	245	NU 10/600 M	NU 10/600 MA	NU 10/600 E.M1	NU 10/600 M
600	870	118	2750	5100	700	900	245	NU 10/600 M	NU 10/600 N2MA	NU 10/600 E.M1	NU 10/600 M
600	870	155	4180	8000	600	900	325	NU 20/600 M	NU 20/600 ECMA	NU 20/600 E.M1	NU 20/600 M

CYLINDRICAL ROLLER BEARINGS
Single Row

Table 93
Bore Diameter 600mm - 1000mm



Principal Dimensions			Basic Load Ratings		Speed Ratings		Mass	Designations			
d	D	B	Dynamic	Static	Ref. Speed	Limiting Speed					
mm			C	C ₀	r/min		kg	Local	SKF	FAG	NSK
600	870	200	5390	11000	600	900	415	NU 30/600 M	NU 30/600 ECMA/HA1	NU 30/600 E.M1	NU 30/600 M
600	1090	155	5610	9800	480	850	710	NU 2/600 M	NU 2/600 ECMA/HB1	NU 2/600 E.M1	NU 2/600 M
630	780	69	1100	2500	800	1000	75	NJ 18/630 M	NJ 18/630 ECMA/HB1	NJ 18/630 E.M1	NJ 18/630 M
630	780	88	1570	3900	750	950	100	N 28/630 M	N 28/630 MB	N 28/630 E.M1	N 28/630 M
630	780	88	1570	3800	750	950	98	NU 28/630 M	NU 28/630 MA	NU 28/630 E.M1	NU 28/630 M
630	780	112	2200	5700	670	670	120	N 38/630 M	N 38/630 MB	N 38/630 E.M1	N 38/630 M
630	780	112	2200	5700	670	670	125	NF 38/630 M	NF 38/630 MB	NF 38/630 E.M1	NF 38/630 M
630	850	100	2240	4400	700	900	165	NU 19/630 M	NU 19/630 ECMA	NU 19/630 E.M1	NU 19/630 M
630	850	128	3300	7200	700	900	230	NJ 29/630 M	NJ 29/630 ECMA/HB1	NJ 29/630 E.M1	NJ 29/630 M
630	850	128	3300	720	700	900	220	NU 29/630 M	NU 29/630 ECMA	NU 29/630 E.M1	NU 29/630 M
630	920	128	3410	6200	630	850	285	NU 10/630 M	NU 10/630 ECMA/HA2	NU 10/630 E.M1	NU 10/630 M
630	920	128	3410	6200	630	850	285	NU 10/630 M	NU 10/630 ECN2MA	NU 10/630 E.M1	NU 10/630 M
630	920	128	3410	6200	630	850	285	NUP 10/630 M	NUP 10/630 ECMA/HA2	NUP 10/630 E.M1	NUP 10/630 M
630	920	170	4730	9500	560	850	400	NU 20/630 M	NU 20/630 ECMA	NU 20/630 E.M1	NU 20/630 M
630	1150	230	8580	13700	450	700	1100	NU 12/630 M	NU 12/630 ECMA	NU 12/630 E.M1	NU 12/630 M
670	820	69	1230	2800	670	900	84.5	NJ 18/670 M	NJ 18/670 MA6/343016	NJ 18/670 E.M1	NJ 18/670 M
670	900	103	2330	4750	630	850	195	NU 19/670 M	NU 19/670 ECMA	NU 19/670 E.M1	NU 19/670 M
670	900	103	2330	4750	630	850	195	NUP 19/670 M	NUP 19/670 ECMA	NUP 19/670 E.M1	NUP 19/670 M
670	980	136	3740	6800	600	800	350	NU 10/670 M	NU 10/670 ECMA	NU 10/670 E.M1	NU 10/670 M
670	980	180	5390	11000	500	800	480	NU 20/670 M	NU 20/670 ECMA	NU 20/670 E.M1	NU 20/670 M
670	980	230	6600	14000	500	800	600	NU 30/670 M	NU 30/670 MA/342771	NU 30/670 E.M1	NU 30/670 M
710	870	74	1450	3350	630	850	93.5	NU 18/710 M	NU 18/710 ECMA/HB1	NU 18/710 E.M1	NU 18/710 M
710	870	95	1940	5000	630	850	130	N 28/710 M	N 28/710 E.CMB	N 28/710 E.M1	N 28/710 M
710	950	140	3740	8300	600	800	300	NJ 29/710 M	NJ 29/710 ECMA	NJ 29/710 E.M1	NJ 29/710 M
710	950	140	3740	8300	600	800	295	NU 29/710 M	NU 29/710 ECMA/HA1	NU 29/710 E.M1	NU 29/710 M
710	1030	140	4680	8500	560	750	415	NU 10/710 M	NU 10/710 ECN2MA	NU 10/710 E.M1	NU 10/710 M
710	1030	185	5940	12000	480	700	540	NU 20/710 M	NU 20/710 ECMA	NU 20/710 E.M1	NU 20/710 M
750	920	78	1470	3450	600	800	115	NJ 18/750 M	NJ 18/750 MA	NJ 18/750 E.M1	NJ 18/750 M
750	920	78	1470	3450	600	800	110	NU 18/750 M	NU 18/750 MA	NU 18/750 E.M1	NU 18/750 M
750	1000	112	2810	5850	560	700	265	NF 19/750 M	NF 19/750 ECMB/HA1	NF 19/750 E.M1	NF 19/750 M
750	1090	150	4730	8800	430	670	490	NU 10/750 M	NU 10/750 ECN2MA	NU 10/750 E.M1	NU 10/750 M
750	1090	195	7040	14600	430	670	635	NU 20/750 M	NU 20/750 ECMA	NU 20/750 E.M1	NU 20/750 M
800	980	82	1720	4150	530	700	145	NJ 18/800 M	NJ 18/800 ECMA	NJ 18/800 E.M1	NJ 18/800 M
800	1150	155	5500	10600	480	630	560	NU 10/800 M	NU 10/800 ECMA/HB1	NU 10/800 E.M1	NU 10/800 M
800	1150	200	7040	14600	400	630	715	NU 20/800 M	NU 20/800 ECMA	NU 20/800 E.M1	NU 20/800 M
850	1030	106	2120	6000	500	670	195	N 28/850 M	N 28/850 MB	N 28/850 E.M1	N 28/850 M
850	1030	106	2120	6000	500	670	190	NU 28/850 M	NU 28/850 MA	NU 28/850 E.M1	NU 28/850 M
850	1120	118	3360	7350	480	700	335	NF 19/850 M	NF 19/850 ECM2P/HA1	NF 19/850 E.M1	NF 19/850 M
850	1120	118	3190	6950	480	600	330	NU 19/850 M	NU 19/850 ECMA/HA1	NU 19/850 E.M1	NU 19/850 M
850	1120	155	4680	11200	480	600	430	N 29/850 M	N 29/850 ECMB6	N 29/850 E.M1	N 29/850 M
900	1090	85	1980	4900	450	600	170	NU 18/900 M	NU 18/900 MA	NU 18/900 E.M1	NU 18/900 M
900	1090	112	2700	7200	450	600	240	N 28/900 M	N 28/900 MB	N 28/900 E.M1	N 28/900 M
900	1090	112	2700	7200	450	600	235	NU 28/900 M	NU 28/900 MA/343017	NU 28/900 E.M1	NU 28/900 M
900	1180	122	4130	8800	430	560	380	NU 19/900 M	NU 19/900 ECMA	NU 19/900 E.M1	NU 19/900 M
900	1180	165	5830	14000	430	560	560	NU 29/900 M	NU 29/900 ECMA/HB1	NU 29/900 E.M1	NU 29/900 M
950	1250	175	5830	14000	400	530	745	NU 29/950 M	NU 29/950 ECMA	NU 29/950 E.M1	NU 29/950 M
1000	1220	100	2640	6550	400	530	265	NU 18/1000 M	NU 18/1000 MA/HB1	NU 18/1000 E.M1	NU 18/1000 M
1000	1220	128	3690	10000	400	530	350	NF 28/1000 M	NF 28/1000 ECMP/HA1	NF 28/1000 E.M1	NF 28/1000 M
1000	1220	128	3690	10000	400	530	345	NJ 28/1000 M	NJ 28/1000 ECMP/HA1	NJ 28/1000 E.M1	NJ 28/1000 M
1000	1220	128	2640	6550	400	530	287	NUB 18/1000 M	NUB 18/1000 MA/HB1	NUB 18/1000 E.M1	NUB 18/1000 M



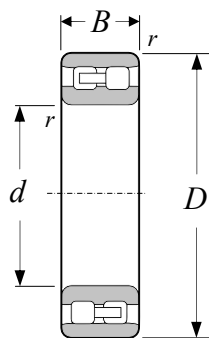
CYLINDRICAL ROLLER BEARINGS
Single Row

Table 94
Bore Diameter 1000mm - 1700mm

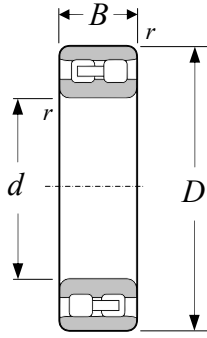
Principal Dimensions			Basic Load Ratings		Speed Ratings		Mass	Designations			
d	D	B	Dynamic	Static	Ref. Speed	Limiting Speed		Local	SKF	FAG	NSK
mm			C	C ₀	r/min						
1000	1320	185	7040	17300	360	480	700	NU 29/1000 M	NU 29/1000 ECFR	NU 29/1000 E.M1	NU 29/1000 M
1060	1280	128	3580	10400	300	360	360	N 28/1060 M	N 28/1060 MB	N 28/1060 E.M1	N 28/1060 M
1060	1400	195	7210	17300	280	340	870	NU 29/1060 M	NU 29/1060 ECMA/HB1	NU 29/1060 E.M1	NU 29/1060 M
1120	1360	106	3410	8650	280	340	335	NJ 18/1120 M	NJ 18/1120 ECMA	NJ 18/1120 E.M1	NJ 18/1120 M
1180	1420	106	3030	7800	260	320	350	NJ 18/1180 M	NJ 18/1180 ECMA	NJ 18/1180 E.M1	NJ 18/1180 M
1180	1540	206	8970	21600	190	240	1050	NU 29/1180 M	NU 29/1180 ECMA/HA1	NU 29/1180 E.M1	NU 29/1180 M
1180	1540	206	8970	21600	190	240	1090	NUP 29/1180 M	NUP 29/1180 ECMA/HA1	NUP 29/1180 E.M1	NUP 29/1180 M
1180	1540	272	11200	29000	200	260	1400	N 39/1180 M	N 39/1180 MB	N 39/1180 E.M1	N 39/1180 M
1250	1750	290	12800	30500	170	200	2320	N 20/1250 M	N 20/1250 MB	N 20/1250 E.M1	N 20/1250 M
1320	1600	122	3800	10000	260	340	530	NJ 18/1320 M	NJ 18/1320 ECMA	NJ 18/1320 E.M1	NJ 18/1320 M
1320	1600	122	3800	10000	260	340	530	NU 18/1320 M	NU 18/1320 MAS/343016	NU 18/1320 E.M1	NU 18/1320 M
1320	1720	230	11400	30500	240	320	1500	NU 29/1320 M	NU 29/1320 ECFR	NU 29/1320 E.M1	NU 29/1320 M
1320	1720	300	13200	34000	220	320	1900	N 39/1320 M	N 39/1320 MB	N 39/1320 E.M1	N 39/1320 M
1400	1700	175	6600	18300	220	280	860	N 28/1400 M	N 28/1400 ECMP	N 28/1400 E.M1	N 28/1400 M
1700	2060	160	7210	19300	160	200	1150	NU 18/1700 M	NU 18/1700 ECMA/HB1	NU 18/1700 E.M1	NU 18/1700 M

CYLINDRICAL ROLLER BEARINGS
Double Row

Table 95
Bore Diameter 105mm - 320mm



Principal Dimensions			Basic Load Ratings		Speed Ratings		Mass	Designations				
d	D	B	Dynamic	Static	Ref. Speed	Limiting Speed		Local		SKF	FAG	NSK
mm			C	C_0	r/min		kg					
105	175	69	413	670	3400	4300	6.7	NNU 4121 MBKR30	NNU 4121 K30M/W33	NNU 4121 K30.M	NNU 4121 MBKR30	
105	175	69	413	670	3400	4300	6.7	NNU 4121 MB	NNU 4121 M/W33	NNU 4121 M	NNU 4121 MB	
110	180	69	418	710	3200	4300	6.95	NNU 4122 MBKR30	NNU 4122 K30M/W33	NNU 4122 K30.M	NNU 4122 MBKR30	
110	180	69	418	710	3200	4300	6.95	NNU 4122 MB	NNU 4122 M/W33	NNU 4122 M	NNU 4122 MB	
120	200	80	523	865	3000	3800	11	NNU 4124 MBKR30	NNU 4124 K30M/W33	NNU 4124 K30.M	NNU 4124 MBKR30	
120	200	80	523	865	3000	3800	11	NNU 4124 MB	NNU 4124 M/W33	NNU 4124 M	NNU 4124 MB	
130	210	80	561	965	2800	3600	10.7	NNU 4126 MBKR30	NNU 4126 K30M/W33	NNU 4126 K30.M	NNU 4126 MBKR30	
130	210	80	561	965	2800	3600	10.7	NNU 4126 MB	NNU 4126 M/W33	NNU 4126 M	NNU 4126 MB	
140	225	85	627	1040	2600	3400	13	NNU 4128 MBKR30	NNU 4128 K30M/W33	NNU 4128 K30.M	NNU 4128 MBKR30	
140	225	85	627	1040	2600	3400	13	NNU 4128 MB	NNU 4128 M/W33	NNU 4128 M	NNU 4128 MB	
150	250	100	748	1290	2400	3000	18	NNU 4130 MBKR30	NNU 4130 K30M/W33	NNU 4130 K30.M	NNU 4130 MBKR30	
150	250	100	748	1290	2400	3000	18	NNU 4130 MB	NNU 4130 M/W33	NNU 4130 M	NNU 4130 MB	
160	270	109	935	1530	2200	2800	25	NNU 4132 MBKR30	NNU 4132 K30M/W33	NNU 4132 K30.M	NNU 4132 MBKR30	
160	270	109	935	1530	2200	2800	25	NNU 4132 MB	NNU 4132 M/W33	NNU 4132 M	NNU 4132 MB	
170	280	109	968	1630	2000	2600	26	NNU 4134 MBKR30	NNU 4134 K30M/W33	NNU 4134 K30.M	NNU 4134 MBKR30	
170	280	109	968	1630	2000	2600	26	NNU 4134 MB	NNU 4134 M/W33	NNU 4134 M	NNU 4134 MB	
180	300	118	1080	1830	1900	2400	32.5	NNU 4136 MBKR30	NNU 4136 K30M/W33	NNU 4136 K30.M	NNU 4136 MBKR30	
180	300	118	1080	1830	1900	2400	32.5	NNU 4136 MB	NNU 4136 M/W33	NNU 4136 M	NNU 4136 MB	
190	320	128	1320	2200	1800	2400	41	NNU 4138 MBKR30	NNU 4138 K30M/W33	NNU 4138 K30.M	NNU 4138 MBKR30	
190	320	128	1320	2200	1800	2400	41	NNU 4138 MB	NNU 4138 M/W33	NNU 4138 M	NNU 4138 MB	
200	250	50	242	600	2400	2600	5.75	NNU 4840 KR	NNU 4840 K/W33	NNU 4840 K1	NNU 4840 KR	
200	250	50	242	600	2400	2600	5.75	NNU 4840 W	NNU 4840 W33	NNU 4840	NNU 4840 W	
200	340	140	1470	2550	1700	2200	51	NNU 4140 MBKR30	NNU 4140 K30M/W33	NNU 4140 K30.M	NNU 4140 MBKR30	
200	340	140	1470	2550	1700	2200	51	NNU 4140 MB	NNU 4140 M/W33	NNU 4140 M	NNU 4140 MB	
220	370	150	1650	2900	1500	2000	65	NNU 4144 MBKR30	NNU 4144 K30M/W33	NNU 4144 K30.M	NNU 4144 MBKR30	
220	370	150	1650	2900	1500	2000	65	NNU 4144 MB	NNU 4144 M/W33	NNU 4144 M	NNU 4144 MB	
240	300	60	358	930	2200	2400	9.9	NNU 4848 KR	NNU 4848 K/W33	NNU 4848 K1	NNU 4848 KR	
240	300	60	358	930	2200	2400	9.9	NNU 4848 W	NNU 4848 W33	NNU 4848	NNU 4848 W	
240	400	160	1980	3650	1400	1800	85	NNU 4148 MBKR30	NNU 4148 K30M/W33	NNU 4148 K30.M	NNU 4148 MBKR30	
240	400	160	1980	3650	1400	1800	85	NNU 4148 MB	NNU 4148 M/W33	NNU 4148 M	NNU 4148 MB	
260	400	140	1650	3150	1500	1800	63.5	NNU 4052 MBKR	NNU 4052 KM/W33	NNU 4052 K.M	NNU 4052 MBKR	
260	400	140	1650	3150	1500	1800	63.5	NNU 4052 MB	NNU 4052 M/W33	NNU 4052 M	NNU 4052 MB	
260	440	180	2200	3900	1300	1600	110	NNU 4152 MBKR30	NNU 4152 K30M/W33	NNU 4152 K30.M	NNU 4152 MBKR30	
260	440	180	2200	3900	1300	1600	110	NNU 4152 MB	NNU 4152 M/W33	NNU 4152 M	NNU 4152 MB	
280	350	69	457	1200	1700	1900	15.5	NNU 4856 KR	NNU 4856 K/W33	NNU 4856 K1	NNU 4856 KR	
280	350	69	457	1200	1700	1900	15.5	NNU 4856 W	NNU 4856 W33	NNU 4856	NNU 4856 W	
280	420	140	1650	3150	1400	1700	66.5	NNU 4056 MBKR	NNU 4056 KM/W33	NNU 4056 K.M	NNU 4056 MBKR	
280	420	140	1650	3150	1400	1700	66.5	NNU 4056 MB	NNU 4056 M/W33	NNU 4056 M	NNU 4056 MB	
280	460	180	2550	4750	1200	1500	120	NNU 4156 MBKR30	NNU 4156 K30M/W33	NNU 4156 K30.M	NNU 4156 MBKR30	
280	460	180	2550	4750	1200	1500	120	NNU 4156 MB	NNU 4156 M/W33	NNU 4156 M	NNU 4156 MB	
300	380	80	792	2120	1600	1700	22	NNU 4860 KR	NNU 4860 K/W33	NNU 4860 K1	NNU 4860 KR	
300	380	80	792	2120	1600	1700	22	NNU 4860 W	NNU 4860 W33	NNU 4860	NNU 4860 W	
300	460	160	2010	4000	1300	1500	96	NNU 4060 MBKR	NNU 4060 KM/W33	NNU 4060 K.M	NNU 4060 MBKR	
300	460	160	2010	4000	1300	1500	96	NNU 4060 MB	NNU 4060 M/W33	NNU 4060 M	NNU 4060 MB	
300	500	200	2860	5300	1100	1400	155	NNU 4160 MBKR30	NNU 4160 K30M/W33	NNU 4160 K30.M	NNU 4160 MBKR30	
300	500	200	2860	5300	1100	1400	155	NNU 4160 MB	NNU 4160 M/W33	NNU 4160 M	NNU 4160 MB	
320	400	80	765	2080	1500	1600	23.5	NNU 4864 KR	NNU 4864 K/W33	NNU 4864 K1	NNU 4864 KR	
320	400	80	765	2080	1500	1600	23.5	NNU 4864 W	NNU 4864 W33	NNU 4864	NNU 4864 W	
320	480	160	2120	4300	1200	1400	100	NNU 4064 MBKR	NNU 4064 KM/W33	NNU 4064 K.M	NNU 4064 MBKR	
320	480	160	2120	4300	1200	1400	100	NNU 4064 MB	NNU 4064 M/W33	NNU 4064 M	NNU 4064 MB	



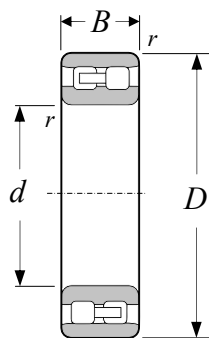
CYLINDRICAL ROLLER BEARINGS
Double Row

Table 96
Bore Diameter 320mm - 500mm

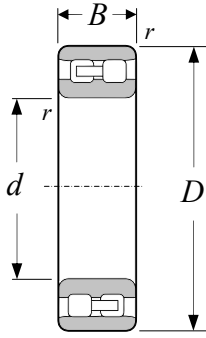
Principal Dimensions			Basic Load Ratings		Speed Ratings		Mass	Designations			
d	D	B	Dynamic	Static	Ref. Speed	Limiting Speed					
mm			C	C ₀	r/min		kg	Local	SKF	FAG	NSK
320	540	218	3410	6200	1000	1300	200	NNU 4164 W	NNU 4164 F	NNU 4164	NNU 4164 W
320	540	218	3410	6200	1000	1300	200	NNU 4164 KR30	NNU 4164 K30F	NNU 4164 K30	NNU 4164 KR30
340	420	80	644	1830	1400	1500	25	NNU 4868 KR	NNU 4868 K/W33	NNU 4868 K1	NNU 4868 KR
340	420	80	644	1830	1400	1500	25	NNU 4868 W	NNU 4868 W33	NNU 4868	NNU 4868 W
340	420	80	644	1830	1400	1500	24.5	NNUP 4868 W	NNUP 4868 W33	NNUP 4868	NNUP 4868 W
340	520	180	2550	5100	1100	1300	140	NNU 4068 MBKR	NNU 4068 KM/W33	NNU 4068 K.M	NNU 4068 MBKR
340	520	180	2550	5100	1100	1300	140	NNU 4068 MB	NNU 4068 M/W33	NNU 4068 M	NNU 4068 MB
340	580	243	4020	7500	950	1200	260	NNU 4168 MBKR30	NNU 4168 K30M/W33	NNU 4168 K30.M	NNU 4168 MBKR30
340	580	243	4020	7500	950	1200	260	NNU 4168 MB	NNU 4168 M/W33	NNU 4168 M	NNU 4168 MB
360	540	180	2810	5700	1100	1200	142	NNU 4072 MBKR	NNU 4072 KM/W33	NNU 4072 K.M	NNU 4072 MBKR
360	540	180	2810	5700	1100	1200	142	NNU 4072 MB	NNU 4072 M/W33	NNU 4072 M	NNU 4072 MB
360	600	243	4290	8500	900	1100	275	NNU 4172 MBKR30	NNU 4172 K30M	NNU 4172 K30.M	NNU 4172 MBKR30
360	600	243	4290	8500	900	1100	275	NNU 4172 MB	NNU 4172 M	NNU 4172 M	NNU 4172 MB
380	480	100	952	2550	1200	1300	44	NNU 4876 KR	NNU 4876 K/W33	NNU 4876 K1	NNU 4876 KR
380	480	100	952	2550	1200	1300	44	NNU 4876 W	NNU 4876 W33	NNU 4876	NNU 4876 W
380	560	180	2860	6000	1000	1200	150	NNU 4076 MBKR	NNU 4076 KM/W33	NNU 4076 K.M	NNU 4076 MBKR
380	560	180	2860	6000	1000	1200	150	NNU 4076 MB	NNU 4076 M/W33	NNU 4076 M	NNU 4076 MB
380	620	243	4290	8500	850	1100	285	NNU 4176 MBKR30	NNU 4176 K30M	NNU 4176 K30.M	NNU 4176 MBKR30
380	620	243	4290	8500	850	1100	285	NNU 4176 MB	NNU 4176 M	NNU 4176 M	NNU 4176 MB
400	500	100	968	2750	1100	1200	46	NNU 4880 KR	NNU 4880 K/W33	NNU 4880 K1	NNU 4880 KR
400	500	100	968	2750	1100	1200	46	NNU 4880 W	NNU 4880 W33	NNU 4880	NNU 4880 W
400	500	100	968	2750	1100	1200	45.5	NNUP 4880 W	NNUP 4880 HB1W33	NNUP 4880	NNUP 4880 W
400	600	200	3470	7200	950	1100	205	NNU 4080 W	NNU 4080 F/W33	NNU 4080	NNU 4080 W
400	600	200	3470	7200	950	1100	205	NNU 4080 KR	NNU 4080 KF/W33	NNU 4080 K	NNU 4080 KR
400	650	250	4730	9500	800	1000	325	NNU 4180 MBKR30	NNU 4180 K30M/W33	NNU 4180 K30.M	NNU 4180 MBKR30
400	650	250	4730	9500	800	1000	325	NNU 4180 MB	NNU 4180 M/W33	NNU 4180 M	NNU 4180 MB
420	520	100	990	2850	1100	1200	48	NNU 4884 KR	NNU 4884 K/W33	NNU 4884 K1	NNU 4884 KR
420	520	100	990	2850	1100	1200	48	NNU 4884 W	NNU 4884 W33	NNU 4884	NNU 4884 W
420	620	200	3520	7500	900	950	183	NNU 4084 MBKR	NNU 4084 KM/W33	NNU 4084 K.M	NNU 4084 MBKR
420	620	200	3520	7500	900	950	183	NNU 4084 MB	NNU 4084 M/W33	NNU 4084 M	NNU 4084 MB
440	540	100	1010	2900	1000	1100	50	NNU 4888 KR	NNU 4888 K/W33	NNU 4888 K1	NNU 4888 KR
440	540	100	1010	2900	1000	1100	50	NNU 4888 W	NNU 4888 W33	NNU 4888	NNU 4888 W
440	650	212	3910	8300	850	950	215	NNU 4088 MBKR	NNU 4088 KM/W33	NNU 4088 K.M	NNU 4088 MBKR
440	650	212	3910	8300	850	950	215	NNU 4088 MB	NNU 4088 M/W33	NNU 4088 M	NNU 4088 MB
440	720	280	5720	11800	700	900	450	NNU 4188 MBKR30	NNU 4188 K30M/W33	NNU 4188 K30.M	NNU 4188 MBKR30
440	720	280	5720	11800	700	900	450	NNU 4188 MB	NNU 4188 M/W33	NNU 4188 M	NNU 4188 MB
460	580	118	1190	3250	1000	1100	75	NNU 4892 KR	NNU 4892 K/W33	NNU 4892 K1	NNU 4892 KR
460	580	118	1190	3250	1000	1100	75	NNU 4892 W	NNU 4892 W33	NNU 4892	NNU 4892 W
460	680	218	4290	9300	800	950	240	NNU 4092 MBKR	NNU 4092 KM/W33	NNU 4092 K.M	NNU 4092 MBKR
460	680	218	4290	9300	800	950	240	NNU 4092 MB	NNU 4092 M/W33	NNU 4092 M	NNU 4092 MB
460	760	300	6440	12900	670	850	535	NNU 4192 MBKR30	NNU 4192 K30M	NNU 4192 K30.M	NNU 4192 MBKR30
460	760	300	6440	12900	670	850	535	NNU 4192 MB	NNU 4192 M	NNU 4192 M	NNU 4192 MB
480	700	218	4400	9650	750	900	275	NNU 4096 MBKR	NNU 4096 KM/W33	NNU 4096 K.M	NNU 4096 MBKR
480	700	218	4400	9650	7500	900	275	NNU 4096 MB	NNU 4096 M/W33	NNU 4096 M	NNU 4096 MB
480	790	308	7040	14300	630	800	590	NNU 4196 MBKR30	NNU 4196 K30M/W33	NNU 4196 K30.M	NNU 4196 MBKR30
480	790	308	7040	14300	630	800	590	NNU 4196 MB	NNU 4196 M/W33	NNU 4196 M	NNU 4196 MB
500	720	218	4460	10000	750	850	287	NNU 40/500 MBKR	NNU 40/500 KM/W33	NNU 40/500 K.M	NNU 40/500 MBKR
500	720	218	4460	10000	750	850	287	NNU 40/500 MB	NNU 40/500 M/W33	NNU 40/500 M	NNU 40/500 MB
500	830	325	7480	15000	600	800	710	NNU 41/500 MBKR30	NNU 41/500 K30M/W33	NNU 41/500 K30.M	NNU 41/500 MBKR30
500	830	325	7480	15000	600	800	710	NNU 41/500 MB	NNU 41/500 M/W33	NNU 41/500 M	NNU 41/500 MB

CYLINDRICAL ROLLER BEARINGS
Double Row

Table 97
Bore Diameter 530mm - 1000mm



Principal Dimensions			Basic Load Ratings		Speed Ratings		Mass	Designations				
d	D	B	Dynamic	Static	Ref. Speed	Limiting Speed		Local		SKF	FAG	NSK
mm			C	C ₀	r/min		kg					
530	780	250	5500	12200	670	800	420	NNU 40/530 MBKR	NNU 40/530 KM/W33	NNU 40/530 K.M	NNU 40/530 MBKR	
530	780	250	5500	12200	670	800	420	NNU 40/530 MB	NNU 40/530 M/W33	NNU 40/530 M	NNU 40/530 MB	
530	870	335	7810	16000	560	750	790	NNU 41/530 MBKR30	NNU 41/530 K30M/W33	NNU 41/530 K30.M	NNU 41/530 MBKR30	
530	870	335	7810	16000	560	750	790	NNU 41/530 MB	NNU 41/530 M/W33	NNU 41/530 M	NNU 41/530 MB	
560	820	258	5720	12900	630	750	475	NNU 40/560 MBKR	NNU 40/560 KM/W33	NNU 40/560 K.M	NNU 40/560 MBKR	
560	820	258	5720	12900	630	750	475	NNU 40/560 MB	NNU 40/560 M/W33	NNU 40/560 M	NNU 40/560 MB	
560	920	355	8800	18300	530	670	930	NNU 41/560 MBKR30	NNU 41/560 K30M/W33X	NNU 41/560 K30.M	NNU 41/560 MBKR30	
560	920	355	8800	18300	530	670	930	NNU 41/560 MB	NNU 41/560 M/W33	NNU 41/560 M	NNU 41/560 MB	
600	870	272	6820	15600	600	700	530	NNU 40/600 MBKR	NNU 40/600 KM/W33	NNU 40/600 K.M	NNU 40/600 MBKR	
600	870	272	6820	15600	600	700	530	NNU 40/600 MB	NNU 40/600 M/W33	NNU 40/600 M	NNU 40/600 MB	
600	980	375	9900	21200	480	630	1100	NNU 41/600 MBKR30	NNU 41/600 K30M/W33	NNU 41/600 K30.M	NNU 41/600 MBKR30	
600	980	375	9900	21200	480	630	1100	NNU 41/600 MB	NNU 41/600 M/W33	NNU 41/600 M	NNU 41/600 MB	
630	920	290	7650	17600	560	630	635	NNU 40/630 MBKR	NNU 40/630 KM/W33	NNU 40/630 K.M	NNU 40/630 MBKR	
630	920	290	7650	17600	560	630	635	NNU 40/630 MB	NNU 40/630 M/W33	NNU 40/630 M	NNU 40/630 MB	
630	1030	400	11000	24000	450	600	1330	NNU 41/630 MBKR30	NNU 41/630 K30M/W33	NNU 41/630 K30.M	NNU 41/630 MBKR30	
630	1030	400	11000	24000	450	600	1330	NNU 41/630 MB	NNU 41/630 M/W33	NNU 41/630 M	NNU 41/630 MB	
670	980	308	8420	19600	500	600	765	NNU 40/670 MBKR	NNU 40/670 KM/W33	NNU 40/670 K.M	NNU 40/670 MBKR	
670	980	308	8420	19600	500	600	765	NNU 40/670 MB	NNU 40/670 M/W33	NNU 40/670 M	NNU 40/670 MB	
670	1090	412	12100	25500	430	530	1500	NNU 41/670 MBKR30	NNU 41/670 K30M/W33	NNU 41/670 K30.M	NNU 41/670 MBKR30	
670	1090	412	12100	25500	430	530	1500	NNU 41/670 MB	NNU 41/670 M/W33	NNU 41/670 M	NNU 41/670 MB	
710	1030	315	9350	21600	480	560	850	NNU 40/710 MBKR	NNU 40/710 KM/W33	NNU 40/710 K.M	NNU 40/710 MBKR	
710	1030	315	9350	21600	480	560	850	NNU 40/710 MB	NNU 40/710 M/W33	NNU 40/710 M	NNU 40/710 MB	
710	1150	438	13400	28500	380	500	1790	NNU 41/710 MBKR30	NNU 41/710 K30M/W33	NNU 41/710 K30.M	NNU 41/710 MBKR30	
710	1150	438	13400	28500	380	500	1790	NNU 41/710 MB	NNU 41/710 M/W33	NNU 41/710 M	NNU 41/710 MB	
750	920	170	3690	10200	530	600	240	NN 48/750 KR30	NN 48/750 K30/HB1W33	NN 48/750 K30	NN 48/750 KR30	
750	920	170	3690	10200	530	600	240	NN 48/750 W	NN 48/750 /HB1W33	NN 48/750	NN 48/750 W	
750	1090	335	10200	24000	430	500	925	NNU 40/750 MBKR	NNU 40/750 KM/W33	NNU 40/750 K.M	NNU 40/750 MBKR	
750	1090	335	10200	24000	430	500	925	NNU 40/750 MB	NNU 40/750 M/W33	NNU 40/750 M	NNU 40/750 MB	
750	1220	475	16100	35500	380	450	2230	NNU 41/750 MBKR30	NNU 41/750 K30M/W33	NNU 41/750 K30.M	NNU 41/750 MBKR30	
750	1220	475	16100	35500	380	450	2230	NNU 41/750 MB	NNU 41/750 M/W33	NNU 41/750 M	NNU 41/750 MB	
800	1150	345	10800	26000	400	480	1140	NNU 40/800 MBKR	NNU 40/800 KM/W33	NNU 40/800 K.M	NNU 40/800 MBKR	
800	1150	345	10800	26000	400	480	1140	NNU 40/800 MB	NNU 40/800 M/W33	NNU 40/800 M	NNU 40/800 MB	
800	1280	475	16500	36500	320	430	2390	NNU 41/800 MBKR30	NNU 41/800 K30M/W33	NNU 41/800 K30.M	NNU 41/800 MBKR30	
800	1280	475	16500	36500	320	430	2390	NNU 41/800 MB	NNU 41/800 M/W33	NNU 41/800 M	NNU 41/800 MB	
850	1220	365	11700	28500	360	430	1340	NNU 40/850 MBKR	NNU 40/850 KM/W33	NNU 40/850 K.M	NNU 40/850 MBKR	
850	1220	365	11700	28500	360	430	1340	NNU 40/850 MB	NNU 40/850 M/W33	NNU 40/850 M	NNU 40/850 MB	
850	1360	500	19800	45000	300	400	2900	NNU 41/850 MBKR30	NNU 41/850 K30M/W33	NNU 41/850 K30.M	NNU 41/850 MBKR30	
850	1360	500	19800	45000	300	400	2900	NNU 41/850 MB	NNU 41/850 M/W33	NNU 41/850 M	NNU 41/850 MB	
900	1280	375	12800	31500	340	400	1500	NNU 40/900 MBKR	NNU 40/900 KM/W33	NNU 40/900 K.M	NNU 40/900 MBKR	
900	1280	375	12800	31500	340	400	1500	NNU 40/900 MB	NNU 40/900 M/W33	NNU 40/900 M	NNU 40/900 MB	
900	1420	515	22000	47500	280	360	3180	NNU 41/900 MBKR30	NNU 41/900 K30M/W33	NNU 41/900 K30.M	NNU 41/900 MBKR30	
900	1420	515	22000	47500	280	360	3180	NNU 41/900 MB	NNU 41/900 M/W33	NNU 41/900 M	NNU 41/900 MB	
950	1360	412	14200	35500	320	380	1900	NNU 40/950 MBKR	NNU 40/950 KM/W33	NNU 40/950 K.M	NNU 40/950 MBKR	
950	1360	412	14200	35500	320	380	1900	NNU 40/950 MB	NNU 40/950 M/W33	NNU 40/950 M	NNU 40/950 MB	
950	1500	545	25500	57000	260	340	3830	NNU 41/950 MBKR30	NNU 41/950 K30M/W33	NNU 41/950 K30.M	NNU 41/950 MBKR30	
950	1500	545	25500	57000	260	340	3830	NNU 41/950 MB	NNU 41/950 M/W33	NNU 41/950 M	NNU 41/950 MB	
1000	1320	315	8580	26000	340	400	1200	NN 49/1000 KR	NN 49/1000 K/W33X	NN 49/1000 K	NN 49/1000 KR	
1000	1320	315	8580	26000	340	400	1200	NN 49/1000 W	NN 49/1000 /W33X	NN 49/1000 W	NN 49/1000 W	
1000	1420	412	15400	38000	300	340	2000	NNU 40/1000 MBKR	NNU 40/1000 KM/W33	NNU 40/1000 K.M	NNU 40/1000 MBKR	
1000	1420	412	15400	38000	300	340	2000	NNU 40/1000 MB	NNU 40/1000 M/W33	NNU 40/1000 M	NNU 40/1000 MB	



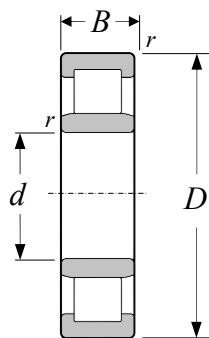
CYLINDRICAL ROLLER BEARINGS
Double Row

Table 98
Bore Diameter 105mm - 320mm

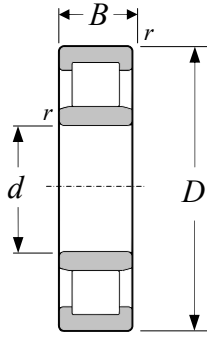
Principal Dimensions			Basic Load Ratings		Speed Ratings		Mass	Designations				
d	D	B	Dynami c	Static C ₀	Ref. Speed	Limiting Speed		Local		SKF	FAG	NSK
mm			kN		r/min		kg					
1000	1580	580	27500	62000	240	300	4270	NNU 41/1000 MBKR30	NNU 41/1000 K30M/W33	NNU 41/1000 K30.M	NNU 41/1000 MBKR30	
1000	1580	580	27500	62000	240	300	4270	NNU 41/1000 MB	NNU 41/1000 M/W33	NNU 41/1000 M	NNU 41/1000 MB	
1060	1660	600	30300	69500	220	280	5070	NNU 41/1060 MBKR30	NNU 41/1060 K30M/W33	NNU 41/1060 K30.M	NNU 41/1060 MBKR30	
1060	1660	600	30300	69500	220	280	5070	NNU 41/1060 MB	NNU 41/1060 M/W33	NNU 41/1060 M	NNU 41/1060 MB	
1120	1750	630	33600	76500	200	280	5600	NNU 41/1120 MBKR30	NNU 41/1120 K30M/W33	NNU 41/1120 K30.M	NNU 41/1120 MBKR30	
1120	1750	630	33600	76500	200	280	5600	NNU 41/1120 MB	NNU 41/1120 M/W33	NNU 41/1120 M	NNU 41/1120 MB	
1180	1850	670	36900	85000	180	240	7200	NNU 41/1180 MBKR30	NNU 41/1180 K30M/W33	NNU 41/1180 K30.M	NNU 41/1180 MBKR30	
1180	1850	670	36900	85000	180	240	7200	NNU 41/1180 MB	NNU 41/1180 M/W33	NNU 41/1180 M	NNU 41/1180 MB	
1250	1950	710	41800	98000	160	220	8000	NNU 41/1250 MBKR30	NNU 41/1250 K30M/W33	NNU 41/1250 K30.M	NNU 41/1250 MBKR30	
1250	1950	710	41800	98000	160	220	8000	NNU 41/1250 MB	NNU 41/1250 M/W33	NNU 41/1250 M	NNU 41/1250 MB	
1320	1720	400	13800	42500	200	280	3060	NN 49/1320 W	NN 49/1320 FB/W33	NN 49/1320	NN 49/1320 W	
1320	1720	400	13800	42500	200	280	3060	NN 49/1320 KR	NN 49/1320 KFB/W33	NN 49/1320 K	NN 49/1320 KR	
1320	2060	750	45700	106000	150	190	9400	NNU 41/1320 MBKR30	NNU 41/1320 K30M/W33	NNU 41/1320 K30.M	NNU 41/1320 MBKR30	
1320	2060	750	45700	106000	150	190	9400	NNU 41/1320 MB	NNU 41/1320 M/W33	NNU 41/1320 M	NNU 41/1320 MB	
1400	2180	775	49500	116000	130	170	10700	NNU 41/1400 MBKR30	NNU 41/1400 K30M/W33	NNU 41/1400 K30.M	NNU 41/1400 MBKR30	
1400	2180	775	49500	116000	130	170	10700	NNU 41/1400 MB	NNU 41/1400 M/W33	NNU 41/1400 M	NNU 41/1400 MB	
1500	2300	800	52800	132000	120	150	12300	NNU 41/1500 MBKR30	NNU 41/1500 K30M/W33	NNU 41/1500 K30.M	NNU 41/1500 MBKR30	
1500	2300	800	52800	132000	120	150	12300	NNU 41/1500 MB	NNU 41/1500 M/W33	NNU 41/1500 M	NNU 41/1500 MB	

CYLINDRICAL ROLLER BEARINGS
Full Complement, Single Row

Table 99
Bore Diameter 20mm - 140mm



Principal Dimensions			Basic Load Ratings		Speed Ratings		Mass	Designations			
d	D	B	Dynamic	Static	Ref. Speed	Limiting Speed		Local	SKF	FAG	NSK
mm			C	C ₀	r/min						
20	42	16	28.1	28.5	8500	10000	0.11	NCF 3004 CV	NCF 3004 CV	-	-
25	47	16	31.9	35.5	7000	9000	0.12	NCF 3005 CV	NCF 3005 CV	-	-
25	62	24	68.2	68	4500	5600	0.38	NJG 2305 VH	NJG 2305 VH	-	-
30	55	19	39.6	44	6000	7500	0.2	NCF 3006 CV	NCF 3006 CV	-	-
30	72	27	84.2	86.5	4000	4800	0.56	NJG 2306 VH	NJG 2306 VH	-	-
35	62	20	48.4	56	5300	6700	0.26	NCF 3007 CV	NCF 3007 CV	-	-
35	80	31	108	114	3400	4300	0.75	NJG 2307 VH	NJG 2307 VH	-	-
40	68	21	57.2	69.5	4800	6000	0.31	NCF 3008 CV	NCF 3008 CV	-	-
40	90	33	145	156	3000	3600	1	NJG 2308 VH	NJG 2308 VH	-	-
45	75	23	60.5	78	4300	5300	0.4	NCF 3009 CV	NCF 3009 CV	-	-
45	100	36	172	196	2800	3400	1.45	NJG 2309 VH	NJG 2309 VH	-	-
50	80	23	76.5	98	4000	5000	0.43	NCF 3010 CV	NCF 3010 CV	-	-
55	90	26	105	140	3400	4300	0.64	NCF 3011 CV	NCF 3011 CV	-	-
55	120	43	233	260	2200	2800	2.3	NJG 2311 VH	NJG 2311 VH	-	-
60	85	16	55	80	3600	4500	0.29	NCF 2912 CV	NCF 2912 CV	-	-
60	95	26	106	146	3400	4000	0.69	NCF 3012 CV	NCF 3012 CV	-	-
65	90	16	58.3	88	3200	4000	0.31	NCF 2913 CV	NCF 2913 CV	-	-
65	100	26	112	163	3000	3800	0.73	NCF 3013 CV	NCF 3013 CV	-	-
65	140	48	303	360	1900	2400	3.55	NJG 2313 VH	NJG 2313 VH	-	-
70	100	19	76.5	116	3000	3800	0.49	NCF 2914 CV	NCF 2914 CV	-	-
70	110	30	128	173	2800	3600	1.02	NCF 3014 CV	NCF 3014 CV	-	-
70	150	51	336	400	1800	2200	4.4	NJG 2314 VH	NJG 2314 VH	-	-
75	105	19	79.2	125	2800	3600	0.52	NCF 2915 CV	NCF 2915 CV	-	-
75	115	30	134	190	2600	3200	1.06	NCF 3015 CV	NCF 3015 CV	-	-
75	160	55	396	480	1600	2000	5.35	NJG 2315 VH	NJG 2315 VH	-	-
80	110	19	80.9	132	2600	3400	0.55	NCF 2916 CV	NCF 2916 CV	-	-
80	125	34	165	228	2400	3000	1.43	NCF 3016 CV	NCF 3016 CV	-	-
80	170	58	457	570	1500	1900	6.4	NJG 2316 VH	NJG 2316 VH	-	-
85	120	22	102	166	2600	3200	0.81	NCF 2917 CV	NCF 2917 CV	-	-
85	130	34	172	236	2400	3000	1.51	NCF 3017 CV	NCF 3017 CV	-	-
85	180	60	484	620	1400	1800	7.4	NJG 2317 VH	NJG 2317 VH	-	-
90	125	22	105	176	2400	3000	0.84	NCF 2918 CV	NCF 2918 CV	-	-
90	140	37	198	280	2200	2800	1.97	NCF 3018 CV	NCF 3018 CV	-	-
90	190	64	528	670	1400	1800	8.75	NJG 2318 VH	NJG 2318 VH	-	-
95	130	22	114	183	2200	2800	0.86	NCF 2919 CV	NCF 2919 CV	-	-
100	140	24	128	200	2200	2600	1.14	NCF 2920 CV	NCF 2920 CV	-	-
100	150	37	209	310	2000	2600	2.15	NCF 3020 CV	NCF 3020 CV	-	-
100	215	73	704	900	1200	1500	13	NJG 2320 VH	NJG 2320 VH	-	-
110	150	24	134	220	1900	2400	1.23	NCF 2922 CV	NCF 2922 CV	-	-
110	170	45	275	400	1800	2200	3.5	NCF 3022 CV	NCF 3022 CV	-	-
110	240	80	858	1060	1100	1300	17.5	NJG 2322 VH	NJG 2322 VH	-	-
120	165	27	172	290	1800	2200	1.73	NCF 2924 CV	NCF 2924 CV	-	-
120	180	46	292	440	1700	2000	3.8	NCF 3024 CV	NCF 3024 CV	-	-
120	215	58	512	735	1400	1700	9.05	NCF 2224 V	NCF 2224 V	-	-
120	260	86	952	1250	1000	1200	22.5	NJG 2324 VH	NJG 2324 VH	-	-
130	180	30	205	360	1600	2000	2.33	NCF 2926 CV	NCF 2926 CV	-	-
130	200	52	413	620	1500	1900	5.8	NCF 3026 CV	NCF 3026 CV	-	-
130	280	93	1080	1430	950	1200	28	NJG 2326 VH	NJG 2326 VH	-	-
140	190	30	220	390	1500	1900	2.42	NCF 2928 CV	NCF 2928 CV	-	-
140	210	53	440	680	1400	1800	6.1	NCF 3028 CV	NCF 3028 CV	-	-



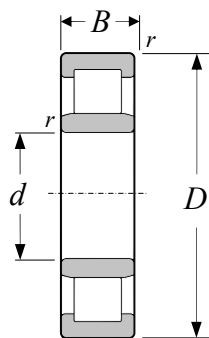
CYLINDRICAL ROLLER BEARINGS
Full Complement, Single Row

Table 100
Bore Diameter 140mm - 360mm

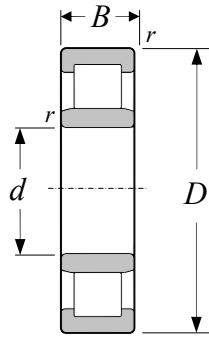
Principal Dimensions			Basic Load Ratings		Speed Ratings		Mass	Designations			
d	D	B	Dynamic C	Static C ₀	Ref. Speed	Limiting Speed		Local	SKF	FAG	NSK
mm			kN		r/min		kg				
140	250	68	693	1020	1200	1500	14.5	NCF 2228 V	NCF 2228 V	-	-
140	300	102	1210	1600	850	1100	35.5	NJG 2328 VH	NJG 2328 VH	-	-
150	210	36	292	490	1400	1700	3.77	NCF 2930 CV	NCF 2930 CV	-	-
150	225	56	457	710	1300	1600	7.5	NCF 3030 CV	NCF 3030 CV	-	-
150	270	73	792	1180	1100	1400	18.4	NCF 2230 V	NCF 2230 V	-	-
150	320	108	1450	1930	800	1000	42.5	NJG 2330 VH	NJG 2330 VH	-	-
160	220	36	303	530	1300	1600	4	NCF 2932 CV	NCF 2932 CV	-	-
160	240	60	512	800	1200	1500	9.1	NCF 3032 CV	NCF 3032 CV	-	-
160	290	80	990	1500	950	1200	23	NCF 2232 V	NCF 2232 V	-	-
170	230	36	314	560	1200	1500	4.3	NCF 2934 CV	NCF 2934 CV	-	-
170	260	67	671	1060	1100	1400	12.5	NCF 3034 CV	NCF 3034 CV	-	-
170	310	86	1100	1700	900	1100	28.7	NCF 2234 V	NCF 2234 V	-	-
170	360	120	1760	2450	700	900	59.5	NJG 2334 VH	NJG 2334 VH	-	-
180	250	42	391	695	1100	1400	6.2	NCF 2936 CV	NCF 2936 CV	-	-
180	280	74	781	1250	1100	1300	16.5	NCF 3036 CV	NCF 3036 CV	-	-
180	380	126	1870	2650	670	800	69.5	NJG 2336 VH	NJG 2336 VH	-	-
190	260	42	440	780	1100	1400	6.5	NCF 2938 CV	NCF 2938 CV	-	-
190	290	75	792	1290	1000	1300	17	NCF 3038 CV	NCF 3038 CV	-	-
190	340	92	1250	1900	800	1000	35.7	NCF 2238 V	NCF 2238 V	-	-
190	400	132	2160	3000	630	800	80	NJG 2338 VH	NJG 2338 VH	-	-
200	250	24	176	335	1100	1400	2.6	NCF 1840 V	NCF 1840 V	-	-
200	280	48	528	965	1000	1300	9.1	NCF 2940 CV	NCF 2940 CV	-	-
200	310	82	913	1530	950	1200	22.5	NCF 3040 CV	NCF 3040 CV	-	-
200	420	138	2290	3200	600	750	92	NJG 2340 VH	NJG 2340 VH	-	-
220	270	24	183	365	1000	1200	2.85	NCF 1844 V	NCF 1844 V	-	-
220	300	48	550	1060	950	1200	9.9	NCF 2944 CV	NCF 2944 CV	-	-
220	340	90	1080	1800	850	1100	29.5	NCF 3044 CV	NCF 3044 CV	-	-
220	400	108	1830	2750	700	850	58	NCF 2244 V	NCF 2244 V	-	-
220	460	145	2550	3550	530	670	111	NJG 2344 VH	NJG 2344 VH	-	-
240	300	28	260	510	900	1100	4.4	NCF 1848 V	NCF 1848 V	-	-
240	320	48	583	1140	850	1100	10.6	NCF 2948 CV	NCF 2948 CV	-	-
240	360	92	1140	1960	800	1000	32	NCF 3048 CV	NCF 3048 CV	-	-
240	500	155	2810	3900	500	630	147	NJG 2348 VH	NJG 2348 VH	-	-
260	320	28	270	550	800	1000	4.75	NCF 1852 V	NCF 1852 V	-	-
260	360	60	737	1430	750	950	18.5	NCF 2952 CV	NCF 2952 CV	-	-
260	400	104	1540	2550	700	900	46.5	NCF 3052 CV	NCF 3052 CV	-	-
260	540	165	3410	4800	430	530	177	NJG 2352 VH	NJG 2352 VH	-	-
280	350	33	341	695	750	950	7.1	NCF 1856 V	NCF 1856 V	-	-
280	380	60	880	1730	700	900	19.7	NCF 2956 CV	NCF 2956 CV	-	-
280	420	106	1570	2650	670	850	50	NCF 3056 CV	NCF 3056 CV	-	-
300	380	38	418	850	670	850	10	NCF 1860 V	NCF 1860 V	-	-
300	420	72	1120	2200	670	800	31.2	NCF 2960 CV	NCF 2960 CV	-	-
300	460	118	1900	3250	600	750	69	NCF 3060 CV	NCF 3060 CV	-	-
320	400	38	440	900	630	800	10.5	NCF 1864 V	NCF 1864 V	-	-
320	440	72	1140	2360	600	750	32.9	NCF 2964 CV	NCF 2964 CV	-	-
320	480	121	1980	3450	560	700	74.5	NCF 3064 CV	NCF 3064 CV	-	-
340	420	38	446	950	600	750	11	NCF 1868 V	NCF 1868 V	-	-
340	460	72	1190	2500	560	700	35	NCF 2968 CV	NCF 2968 CV	-	-
340	520	133	2380	4150	530	670	100	NCF 3068 CV	NCF 3068 CV	-	-
360	440	38	402	900	560	700	11.5	NCF 1872 V	NCF 1872 V	-	-

CYLINDRICAL ROLLER BEARINGS
Full Complement, Single Row

Table 101
Bore Diameter 360mm - 750mm



Principal Dimensions			Basic Load Ratings		Speed Ratings		Mass	Designations			
d	D	B	Dynamic C	Static C ₀	Ref. Speed	Limiting Speed		Local	SKF	FAG	NSK
mm			kN		r/min	kg					
360	480	72	1230	2600	530	670	36.5	NCF 2972 CV	NCF 2972 CV	-	-
360	540	134	2420	4300	500	630	105	NCF 3072 CV	NCF 3072 CV	-	-
380	480	46	627	1290	530	670	19.5	NCF 1876 V	NCF 1876 V	-	-
380	520	82	1570	3250	500	630	52.5	NCF 2976 CV	NCF 2976 CV	-	-
380	560	135	2510	4550	480	600	110	NCF 3076 CV	NCF 3076 CV	-	-
400	500	46	627	1340	500	630	20.5	NCF 1880 V	NCF 1880 V	-	-
400	540	82	1650	3450	480	600	54.5	NCF 2980 CV	NCF 2980 CV	-	-
400	600	148	2970	5500	450	560	145	NCF 3080 CV	NCF 3080 CV	-	-
420	520	46	660	1430	480	600	21	NCF 1884 V	NCF 1884 V	-	-
420	560	82	1650	3600	450	560	57	NCF 2984 CV	NCF 2984 CV	-	-
420	620	150	3030	5700	430	530	150	NCF 3084 CV	NCF 3084 CV	-	-
440	540	46	671	1460	450	560	22	NCF 1888 V	NCF 1888 V	-	-
440	540	60	1060	2700	450	560	29	NCF 2888 V	NCF 2888 V	-	-
440	600	95	2010	4400	430	530	80.5	NCF 2988 V	NCF 2988 V	-	-
440	650	157	3580	6550	400	500	175	NCF 3088 CV	NCF 3088 CV	-	-
460	580	56	913	1960	430	530	34	NCF 1892 V	NCF 1892 V	-	-
460	580	72	1300	3050	430	530	44	NCF 2892 V	NCF 2892 V	-	-
460	620	95	2050	4500	400	500	83.5	NCF 2992 V	NCF 2992 V	-	-
460	680	163	3690	6950	380	480	195	NCF 3092 CV	NCF 3092 CV	-	-
480	600	56	935	2040	400	500	35.5	NCF 1896 V	NCF 1896 V	-	-
480	600	72	1320	3150	400	500	46	NCF 2896 V	NCF 2896 V	-	-
480	650	100	2290	4900	380	480	98	NCF 2996 V	NCF 2996 V	-	-
480	700	165	3740	7200	360	450	205	NCF 3096 CV	NCF 3096 CV	-	-
500	620	56	952	2120	380	480	36.5	NCF 18/500 V	NCF 18/500 V	-	-
500	620	72	1340	3350	380	480	48	NCF 28/500 V	NCF 28/500 V	-	-
500	670	100	2330	5000	380	450	100	NCF 29/500 V	NCF 29/500 V	-	-
500	720	167	3800	7500	360	450	215	NCF 30/500 CV	NCF 30/500 CV	-	-
530	650	56	990	2240	360	450	38.5	NCF 18/530 V	NCF 18/530 V	-	-
530	650	72	1400	3450	360	450	49.5	NCF 28/530 V	NCF 28/530 V	-	-
530	710	106	2640	6100	340	430	120	NCF 29/530 V	NCF 29/530 V	-	-
530	780	185	5230	10600	320	400	300	NCF 30/530 V	NCF 30/530 V	-	-
560	680	56	1020	2360	340	430	40.5	NCF 18/560 V	NCF 18/560 V	-	-
560	680	72	1420	3650	340	430	54	NCF 28/560 V	NCF 28/560 V	-	-
560	750	112	3080	6700	320	400	140	NCF 29/560 V	NCF 29/560 V	-	-
560	820	195	5830	11800	300	380	345	NCF 30/560 V	NCF 30/560 V	-	-
600	730	60	1050	2550	320	400	51.5	NCF 18/600 V	NCF 18/600 V	-	-
600	730	78	1570	4300	320	400	67.5	NCF 28/600 V	NCF 28/600 V	-	-
600	800	118	3190	7100	300	380	170	NCF 29/600 V	NCF 29/600 V	-	-
630	780	69	1250	2900	300	360	72.5	NCF 18/630 V	NCF 18/630 V	-	-
630	780	88	1870	5000	300	360	92.5	NCF 28/630 V	NCF 28/630 V	-	-
630	850	128	3740	8650	280	340	205	NCF 29/630 V	NCF 29/630 V	-	-
670	820	69	1300	3150	280	340	76.5	NCF 18/670 V	NCF 18/670 V	-	-
670	820	88	1940	5300	280	340	97.5	NCF 28/670 V	NCF 28/670 V	-	-
670	900	136	3910	9000	260	320	245	NCF 29/670 V	NCF 29/670 V	-	-
710	870	74	1540	3750	260	320	92.5	NCF 18/710 V	NCF 18/710 V	-	-
710	870	95	2330	6300	260	320	115	NCF 28/710 V	NCF 28/710 V	-	-
710	950	140	4290	10000	240	300	275	NCF 29/710 V	NCF 29/710 V	-	-
750	920	78	1870	4500	240	300	110	NCF 18/750 V	NCF 18/750 V	-	-
750	920	100	2640	6950	240	300	140	NCF 28/750 V	NCF 28/750 V	-	-
750	1000	145	4460	10600	220	280	315	NCF 29/750 V	NCF 29/750 V	-	-



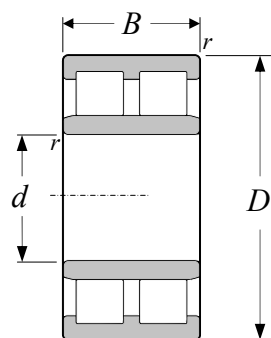
CYLINDRICAL ROLLER BEARINGS
Full Complement, Single Row

Table 102
Bore Diameter 800mm - 1120mm

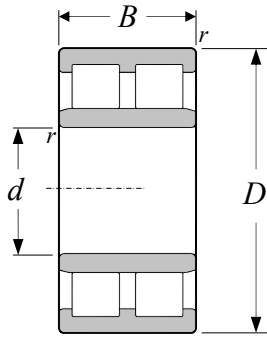
Principal Dimensions			Basic Load Ratings		Speed Ratings		Mass	Designations			
d	D	B	Dynamic C	Static C ₀	Ref. Speed	Limiting Speed		Local	SKF	FAG	NSK
mm			kN		r/min	kg					
800	980	82	1940	4800	220	280	130	NCF 18/800 V	NCF 18/800 V	-	-
800	980	106	2750	7500	220	280	165	NCF 28/800 V	NCF 28/800 V	-	-
800	1060	150	4950	12200	200	260	360	NCF 29/800 V	NCF 29/800 V	-	-
850	1030	82	2010	5100	200	260	135	NCF 18/850 V	NCF 18/850 V	-	-
850	1030	106	2860	8000	200	260	175	NCF 28/850 V	NCF 28/850 V	-	-
850	1120	155	5230	12700	190	240	405	NCF 29/850 V	NCF 29/850 V	-	-
900	1090	85	2380	6000	190	240	160	NCF 18/900 V	NCF 18/900 V	-	-
900	1090	112	3190	9150	190	240	208	NCF 28/900 V	NCF 28/900 V	-	-
900	1180	165	5940	14600	170	220	472	NCF 29/900 V	NCF 29/900 V	-	-
950	1150	90	2420	6300	170	220	185	NCF 18/950 V	NCF 18/950 V	-	-
950	1150	118	3410	9800	170	220	240	NCF 28/950 V	NCF 28/950 V	-	-
950	1250	175	6660	16300	160	200	565	NCF 29/950 V	NCF 29/950 V	-	-
1000	1220	100	2920	7500	160	200	230	NCF 18/1000 V	NCF 18/1000 V	-	-
1000	1220	128	4130	11600	160	200	310	NCF 28/1000 V	NCF 28/1000 V	-	-
1000	1320	185	7480	18600	150	190	680	NCF 29/1000 V	NCF 29/1000 V	-	-
1120	1360	106	3740	9650	130	170	298	NCF 18/1120 V	NCF 18/1120 V	-	-

CYLINDRICAL ROLLER BEARINGS
Full Complement, Double Row

Table 103
Bore Diameter 20mm - 110mm



Principal Dimensions			Basic Load Ratings		Speed Ratings		Mass	Designations			
d	D	B	Dynamic	Static	Ref. Speed	Limiting Speed		Local	SKF	FAG	NSK
mm			C	C ₀	r/min		kg				
20	42	30	52.3	57	8500	10000	0.2	NNCF 5004 CV	NNCF 5004 CV	-	NNCF 5004 V
20	42	30	45.7	55	-	3400	0.2	NNF 5004 ADB-2LSV	NNF 5004 ADB-2LSV	-	NNF 5004 DDU
25	47	30	59.4	71	7000	9000	0.23	NNCF 5005 CV	NNCF 5005 CV	-	NNCF 5005 V
25	47	30	50.1	65.5	-	3000	0.24	NNF 5005 ADB-2LSV	NNF 5005 ADB-2LSV	-	NNF 5005 DDU
30	55	34	73.7	88	6000	7500	0.35	NNCF 5006 CV	NNCF 5006 CV	-	NNCF 5006 V
30	55	34	57.2	75	-	2600	0.37	NNF 5006 ADB-2LSV	NNF 5006 ADB-2LSV	-	NNF 5006 DDU
35	62	36	89.7	112	5300	6700	0.46	NNCF 5007 CV	NNCF 5007 CV	-	NNCF 5007 V
35	62	36	70.4	91.5	-	2200	0.48	NNF 5007 ADB-2LSV	NNF 5007 ADB-2LSV	-	NNF 5007 DDU
40	68	38	106	140	4800	6000	0.56	NNCF 5008 CV	NNCF 5008 CV	-	NNCF 5008 V
40	68	38	85.8	116	-	2000	0.56	NNF 5008 ADB-2LSV	NNF 5008 ADB-2LSV	-	NNF 5008 DDU
45	75	40	112	156	4300	5300	0.71	NNCF 5009 CV	NNCF 5009 CV	-	NNCF 5009 V
45	75	40	102	146	-	1800	0.7	NNF 5009 ADB-2LSV	NNF 5009 ADB-2LSV	-	NNF 5009 DDU
50	80	40	142	196	4000	5000	0.76	NNCF 5010 CV	NNCF 5010 CV	-	NNCF 5010 V
50	80	40	108	160	-	1700	0.76	NNF 5010 ADB-2LSV	NNF 5010 ADB-2LSV	-	NNF 5010 DDU
55	90	46	190	280	3400	4300	1.16	NNCF 5011 CV	NNCF 5011 CV	-	NNCF 5011 V
55	90	46	128	193	-	1500	1.18	NNF 5011 ADB-2LSV	NNF 5011 ADB-2LSV	-	NNF 5011 DDU
60	85	25	78.1	137	3600	4500	0.49	NNC 4912 CV	NNC 4912 CV	-	NNC 4912 V
60	85	25	78.1	137	3600	4500	0.48	NNCF 4912 CV	NNCF 4912 CV	-	NNCF 4912 V
60	85	25	78.1	137	3600	4500	0.47	NNCL 4912 CV	NNCL 4912 CV	-	NNCL 4912 V
60	95	46	198	300	3400	4000	1.24	NNCF 5012 CV	NNCF 5012 CV	-	NNCF 5012 V
60	95	46	134	208	-	1400	1.26	NNF 5012 ADB-2LSV	NNF 5012 ADB-2LSV	-	NNF 5012 DDU
65	100	46	209	325	3000	3800	1.32	NNCF 5013 CV	NNCF 5013 CV	-	NNCF 5013 V
65	100	46	138	224	-	1300	1.33	NNF 5013 ADB-2LSV	NNF 5013 ADB-2LSV	-	NNF 5013 DDU
70	100	30	114	193	3000	3800	0.78	NNC 4914 CV	NNC 4914 CV	-	NNC 4914 V
70	100	30	114	193	3000	3800	0.77	NNCF 4914 CV	NNCF 4914 CV	-	NNCF 4914 V
70	100	30	114	193	3000	3800	0.75	NNCL 4914 CV	NNCL 4914 CV	-	NNCL 4914 V
70	110	54	238	345	2800	3600	1.85	NNCF 5014 CV	NNCF 5014 CV	-	NNCF 5014 V
70	110	54	187	285	-	1200	1.87	NNF 5014 ADB-2LSV	NNF 5014 ADB-2LSV	-	NNF 5014 DDU
75	115	54	251	380	2600	3200	1.93	NNCF 5015 CV	NNCF 5015 CV	-	NNCF 5015 V
75	115	54	205	310	-	1100	1.96	NNF 5015 ADB-2LSV	NNF 5015 ADB-2LSV	-	NNF 5015 DDU
80	110	30	121	216	2600	3400	0.88	NNC 4916 CV	NNC 4916 CV	-	NNC 4916 V
80	110	30	121	216	2600	3400	0.87	NNCF 4916 CV	NNCF 4916 CV	-	NNCF 4916 V
80	110	30	121	216	2600	3400	0.85	NNCL 4916 CV	NNCL 4916 CV	-	NNCL 4916 V
80	125	60	308	455	2400	3000	2.59	NNCF 5016 CV	NNCF 5016 CV	-	NNCF 5016 V
80	125	60	216	335	-	1000	2.71	NNF 5016 ADB-2LSV	NNF 5016 ADB-2LSV	-	NNF 5016 DDU
85	130	60	314	475	2400	3000	2.72	NNCF 5017 CV	NNCF 5017 CV	-	NNCF 5017 V
85	130	60	224	365	-	1000	2.83	NNF 5017 ADB-2LSV	NNF 5017 ADB-2LSV	-	NNF 5017 DDU
90	125	35	161	300	2400	3000	1.33	NNC 4918 CV	NNC 4918 CV	-	NNC 4918 V
90	125	35	161	300	2400	3000	1.33	NNCF 4918 CV	NNCF 4918 CV	-	NNCF 4918 V
90	125	35	161	300	2400	3000	1.3	NNCL 4918 CV	NNCL 4918 CV	-	NNCL 4918 V
90	140	67	369	560	2200	2800	3.62	NNCF 5018 CV	NNCF 5018 CV	-	NNCF 5018 V
90	140	67	319	550	-	900	3.71	NNF 5018 ADB-2LSV	NNF 5018 ADB-2LSV	-	NNF 5018 DDU
95	145	67	330	570	-	900	3.88	NNF 5019 ADB-2LSV	NNF 5019 ADB-2LSV	-	NNF 5019 DDU
100	140	40	209	400	2000	2600	1.95	NNC 4920 CV	NNC 4920 CV	-	NNC 4920 V
100	140	40	209	400	2000	2600	1.93	NNCF 4920 CV	NNCF 4920 CV	-	NNCF 4920 V
100	140	40	209	400	2000	2600	1.9	NNCL 4920 CV	NNCL 4920 CV	-	NNCL 4920 V
100	150	67	391	620	2000	2600	3.94	NNCF 5020 CV	NNCF 5020 CV	-	NNCF 5020 V
100	150	67	347	570	-	850	3.95	NNF 5020 ADB-2LSV	NNF 5020 ADB-2LSV	-	NNF 5020 DDU
110	150	40	220	430	1900	2400	2.15	NNC 4922 CV	NNC 4922 CV	-	NNC 4922 V
110	150	40	220	430	1900	2400	2.12	NNCF 4922 CV	NNCF 4922 CV	-	NNCF 4922 V



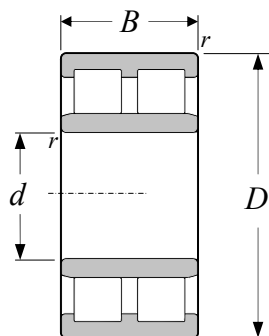
CYLINDRICAL ROLLER BEARINGS
Full Complement, Double Row

Table 104
Bore Diameter 110mm - 180mm

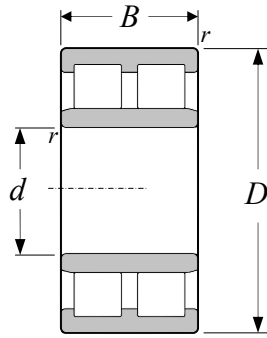
Principal Dimensions			Basic Load Ratings		Speed Ratings		Mass	Designations			
d	D	B	Dynamic	Static	Ref. Speed	Limiting Speed		Local	SKF	FAG	NSK
mm			C	C ₀	r/min		kg				
110	150	40	220	430	1900	2400	2.1	NNCL 4922 CV	NNCL 4922 CV	-	NNCL 4922 V
110	170	80	512	800	1800	2200	6.32	NNCF 5022 CV	NNCF 5022 CV	-	NNCF 5022 V
110	170	80	413	695	-	750	6.45	NNF 5022 ADA-2LSV	NNF 5022 ADA-2LSV	-	NNF 5022 DDU
120	165	45	242	480	1700	2200	2.95	NNC 4924 CV	NNC 4924 CV	-	NNC 4924 V
120	165	45	242	480	1700	2200	2.9	NNCF 4924 CV	NNCF 4924 CV	-	NNCF 4924 V
120	165	45	242	480	1700	2200	2.85	NNCL 4924 CV	NNCL 4924 CV	-	NNCL 4924 V
120	180	80	539	880	1700	2000	6.77	NNCF 5024 CV	NNCF 5024 CV	-	NNCF 5024 V
120	180	80	429	750	-	700	6.9	NNF 5024 ADA-2LSV	NNF 5024 ADA-2LSV	-	NNF 5024 DDU
130	180	50	275	530	1600	2000	3.95	NNC 4926 CV	NNC 4926 CV	-	NNC 4926 V
130	180	50	275	530	1600	2000	3.88	NNCF 4926 CV	NNCF 4926 CV	-	NNCF 4926 V
130	180	50	275	530	1600	2000	3.8	NNCL 4926 CV	NNCL 4926 CV	-	NNCL 4926 V
130	200	95	765	1250	1500	1900	10.2	NNCF 5026 CV	NNCF 5026 CV	-	NNCF 5026 V
130	200	95	616	1040	-	630	10.5	NNF 5026 ADA-2LSV	NNF 5026 ADA-2LSV	-	NNF 5026 DDU
140	190	50	286	570	1500	1900	4.2	NNC 4928 CV	NNC 4928 CV	-	NNC 4928 V
140	190	50	286	570	1500	1900	4.15	NNCF 4928 CV	NNCF 4928 CV	-	NNCF 4928 V
140	190	50	286	570	1500	1900	4.1	NNCL 4928 CV	NNCL 4928 CV	-	NNCL 4928 V
140	210	95	809	1370	1400	1800	11.1	NNCF 5028 CV	NNCF 5028 CV	-	NNCF 5028 V
140	210	95	644	1120	-	600	11	NNF 5028 ADA-2LSV	NNF 5028 ADA-2LSV	-	NNF 5028 DDU
150	190	40	255	585	1500	1800	2.9	NNC 4830 CV	NNC 4830 CV	-	NNC 4830 V
150	190	40	255	585	1500	1800	2.8	NNCF 4830 CV	NNCF 4830 CV	-	NNCF 4830 V
150	190	40	255	585	1500	1800	2.7	NNCL 4830 CV	NNCL 4830 CV	-	NNCL 4830 V
150	210	60	429	830	1400	1700	6.65	NNC 4930 CV	NNC 4930 CV	-	NNC 4930 V
150	210	60	429	830	1400	1700	6.55	NNCF 4930 CV	NNCF 4930 CV	-	NNCF 4930 V
150	210	60	429	830	1400	1700	6.74	NNCL 4930 CV	NNCL 4930 CV	-	NNCL 4930 V
150	225	100	842	1430	1300	1700	13.3	NNCF 5030 CV	NNCF 5030 CV	-	NNCF 5030 V
150	225	100	748	1290	-	560	13.5	NNF 5030 ADA-2LSV	NNF 5030 ADA-2LSV	-	NNF 5030 DDU
160	200	40	260	610	1400	1700	3.1	NNC 4832 CV	NNC 4832 CV	-	NNC 4832 V
160	200	40	260	610	1400	1700	3	NNCF 4832 CV	NNCF 4832 CV	-	NNCF 4832 V
160	200	40	260	610	1400	1700	2.9	NNCL 4832 CV	NNCL 4832 CV	-	NNCL 4832 V
160	220	60	446	915	1300	1600	7	NNC 4932 CV	NNC 4932 CV	-	NNC 4932 V
160	220	60	446	915	1300	1600	6.9	NNCF 4932 CV	NNCF 4932 CV	-	NNCF 4932 V
160	220	60	446	915	1300	1600	6.8	NNCL 4932 CV	NNCL 4932 CV	-	NNCL 4932 V
160	240	109	952	1600	1200	1500	16.2	NNCF 5032 CV	NNCF 5032 CV	-	NNCF 5032 V
160	240	109	781	1400	-	500	16.5	NNF 5032 ADA-2LSV	NNF 5032 ADA-2LSV	-	NNF 5032 DDU
170	215	45	286	655	1300	1600	4.1	NNC 4834 CV	NNC 4834 CV	-	NNC 4834 V
170	215	45	286	655	1300	1600	4	NNCF 4834 CV	NNCF 4834 CV	-	NNCF 4834 V
170	215	45	286	655	1300	1600	3.9	NNCL 4834 CV	NNCL 4834 CV	-	NNCL 4834 V
170	230	60	457	950	1200	1500	7.35	NNC 4934 CV	NNC 4934 CV	-	NNC 4934 V
170	230	60	457	950	1200	1500	7.2	NNCF 4934 CV	NNCF 4934 CV	-	NNCF 4934 V
170	230	60	457	950	1200	1500	7.1	NNCL 4934 CV	NNCL 4934 CV	-	NNCL 4934 V
170	260	122	1230	2120	1100	1400	23	NNCF 5034 CV	NNCF 5034 CV	-	NNCF 5034 V
170	260	122	1010	1800	-	480	22.5	NNF 5034 ADA-2LSV	NNF 5034 ADA-2LSV	-	NNF 5034 DDU
180	225	45	297	695	1200	1500	4.3	NNC 4836 CV	NNC 4836 CV	-	NNC 4836 V
180	225	45	297	695	1200	1500	4.2	NNCF 4836 CV	NNCF 4836 CV	-	NNCF 4836 V
180	225	45	297	695	1200	1500	4.1	NNCL 4836 CV	NNCL 4836 CV	-	NNCL 4836 V
180	250	69	594	1220	1100	1400	10.8	NNC 4936 CV	NNC 4936 CV	-	NNC 4936 V
180	250	69	594	1220	1100	1400	10.7	NNCF 4936 CV	NNCF 4936 CV	-	NNCF 4936 V
180	250	69	594	1220	1100	1400	10.5	NNCL 4936 CV	NNCL 4936 CV	-	NNCL 4936 V
180	280	136	1420	2500	1100	1300	30.5	NNCF 5036 CV	NNCF 5036 CV	-	NNCF 5036 V
180	280	136	1170	2120	-	450	30	NNF 5036 ADA-2LSV	NNF 5036 ADA-2LSV	-	NNF 5036 DDU

CYLINDRICAL ROLLER BEARINGS
Full Complement, Double Row

Table 105
Bore Diameter 190mm - 300mm



Principal Dimensions			Basic Load Ratings		Speed Ratings		Mass	Designations			
d	D	B	Dynamic	Static	Ref. Speed	Limiting Speed		Local	SKF	FAG	NSK
mm			C	C ₀	r/min		kg				
190	240	50	330	750	1100	1400	5.65	NNC 4838 CV	NNC 4838 CV	-	NNC 4838 V
190	240	50	330	750	1100	1400	5.5	NNCF 4838 CV	NNCF 4838 CV	-	NNCF 4838 V
190	240	50	330	750	1100	1400	5.3	NNCL 4838 CV	NNCL 4838 CV	-	NNCL 4838 V
190	260	69	605	1290	1100	1400	11.2	NNC 4938 CV	NNC 4938 CV	-	NNC 4938 V
190	260	69	605	1290	1100	1400	11.1	NNCF 4938 CV	NNCF 4938 CV	-	NNCF 4938 V
190	260	69	605	1290	1100	1400	10.9	NNCL 4938 CV	NNCL 4938 CV	-	NNCL 4938 V
190	290	136	1470	2600	1000	1300	31.5	NNCF 5038 CV	NNCF 5038 CV	-	NNCF 5038 V
190	290	136	1190	2200	-	430	31.5	NNF 5038 ADA-2LSV	NNF 5038 ADA-2LSV	-	NNF 5038 DDU
200	250	50	336	800	1100	1400	5.9	NNC 4840 CV	NNC 4840 CV	-	NNC 4840 V
200	250	50	336	800	1100	1400	5.8	NNCF 4840 CV	NNCF 4840 CV	-	NNCF 4840 V
200	250	50	336	800	1100	1400	5.7	NNCL 4840 CV	NNCL 4840 CV	-	NNCL 4840 V
200	280	80	704	1500	1000	1300	15.8	NNC 4940 CV	NNC 4940 CV	-	NNC 4940 V
200	280	80	704	1500	1000	1300	15.6	NNCF 4940 CV	NNCF 4940 CV	-	NNCF 4940 V
200	280	80	704	1500	1000	1300	15.3	NNCL 4940 CV	NNCL 4940 CV	-	NNCL 4940 V
200	310	150	1680	3050	950	1200	41	NNCF 5040 CV	NNCF 5040 CV	-	NNCF 5040 V
200	310	150	1450	2900	-	400	42	NNF 5040 ADA-2LSV	NNF 5040 ADA-2LSV	-	NNF 5040 DDU
220	270	50	352	865	1000	1200	6.4	NNC 4844 CV	NNC 4844 CV	-	NNC 4844 V
220	270	50	352	865	1000	1200	6.3	NNCF 4844 CV	NNCF 4844 CV	-	NNCF 4844 V
220	270	50	352	865	1000	1200	6.2	NNCL 4844 CV	NNCL 4844 CV	-	NNCL 4844 V
220	300	80	737	1600	950	1200	17.2	NNC 4944 CV	NNC 4944 CV	-	NNC 4944 V
220	300	80	737	1600	950	1200	17	NNCF 4944 CV	NNCF 4944 CV	-	NNCF 4944 V
220	300	80	737	1600	950	1200	16.8	NNCL 4944 CV	NNCL 4944 CV	-	NNCL 4944 V
220	340	160	2010	3600	850	1100	52.5	NNCF 5044 CV	NNCF 5044 CV	-	NNCF 5044 V
220	340	160	1610	3100	-	360	53.5	NNF 5044 ADA-2LSV	NNF 5044 ADA-2LSV	-	NNF 5044 DDU
240	300	60	539	1290	900	1100	10	NNC 4848 CV	NNC 4848 CV	-	NNC 4848 V
240	300	60	539	1290	900	1100	9.9	NNCF 4848 CV	NNCF 4848 CV	-	NNCF 4848 V
240	300	60	539	1290	900	1100	9.8	NNCL 4848 CV	NNCL 4848 CV	-	NNCL 4848 V
240	320	80	781	1760	850	1100	18.5	NNC 4948 CV	NNC 4948 CV	-	NNC 4948 V
240	320	80	781	1760	850	1100	18.3	NNCF 4948 CV	NNCF 4948 CV	-	NNCF 4948 V
240	320	80	781	1760	850	1100	17.9	NNCL 4948 CV	NNCL 4948 CV	-	NNCL 4948 V
240	360	160	2120	3900	800	1000	56	NNCF 5048 CV	NNCF 5048 CV	-	NNCF 5048 V
240	360	160	1680	3350	-	340	57.5	NNF 5048 ADA-2LSV	NNF 5048 ADA-2LSV	-	NNF 5048 DDU
260	320	60	561	1400	800	1000	11	NNC 4852 CV	NNC 4852 CV	-	NNC 4852 V
260	320	60	561	1400	800	1000	10.8	NNCF 4852 CV	NNCF 4852 CV	-	NNCF 4852 V
260	320	60	561	1400	800	1000	10.6	NNCL 4852 CV	NNCL 4852 CV	-	NNCL 4852 V
260	360	100	1170	2550	750	950	32	NNC 4952 CV	NNC 4952 CV	-	NNC 4952 V
260	360	100	1170	2550	750	950	31.6	NNCF 4952 CV	NNCF 4952 CV	-	NNCF 4952 V
260	360	100	1170	2550	750	950	31.2	NNCL 4952 CV	NNCL 4952 CV	-	NNCL 4952 V
260	400	190	2860	5100	700	900	85.5	NNCF 5052 CV	NNCF 5052 CV	-	NNCF 5052 V
280	350	69	737	1860	750	950	16	NNC 4856 CV	NNC 4856 CV	-	NNC 4856 V
280	350	69	737	1860	750	950	15.8	NNCF 4856 CV	NNCF 4856 CV	-	NNCF 4856 V
280	350	69	737	1860	750	950	15.6	NNCL 4856 CV	NNCL 4856 CV	-	NNCL 4856 V
280	380	100	1210	2700	700	900	34	NNC 4956 CV	NNC 4956 CV	-	NNC 4956 V
280	380	100	1210	2700	700	900	33.5	NNCF 4956 CV	NNCF 4956 CV	-	NNCF 4956 V
280	380	100	1210	2700	700	900	33	NNCL 4956 CV	NNCL 4956 CV	-	NNCL 4956 V
280	420	190	2920	5300	670	850	90.5	NNCF 5056 CV	NNCF 5056 CV	-	NNCF 5056 V
300	380	80	858	2120	700	850	23	NNC 4860 CV	NNC 4860 CV	-	NNC 4860 V
300	380	80	858	2120	700	850	22.5	NNCF 4860 CV	NNCF 4860 CV	-	NNCF 4860 V
300	380	80	858	2120	700	850	22	NNCL 4860 CV	NNCL 4860 CV	-	NNCL 4860 V
300	420	118	1680	3750	670	800	53	NNC 4960 CV	NNC 4960 CV	-	NNC 4960 V



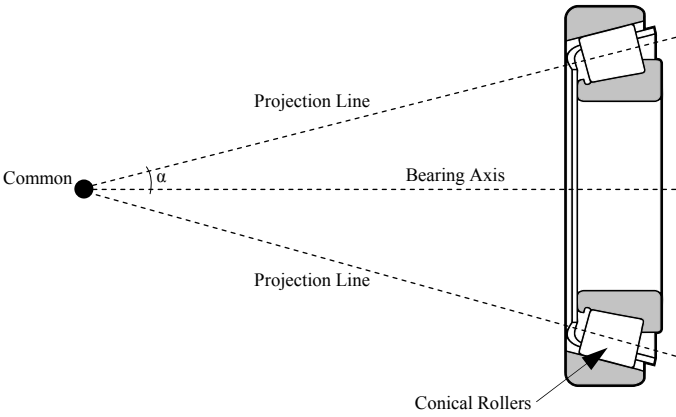
CYLINDRICAL ROLLER BEARINGS
Full Complement, Double Row

Table 106
Bore Diameter 300mm - 400mm

Principal Dimensions			Basic Load Ratings		Speed Ratings		Mass	Designations			
d	D	B	Dynamic	Static	Ref. Speed	Limiting Speed		Local	SKF	FAG	NSK
mm			C	C ₀	r/min		kg				
300	420	118	1680	3750	670	800	52.5	NNCF 4960 CV	NNCF 4960 CV	-	NNCF 4960 V
300	420	118	1680	3750	670	800	52	NNCL 4960 CV	NNCL 4960 CV	-	NNCL 4960 V
300	460	218	3520	6550	600	750	130	NNCF 5060 CV	NNCF 5060 CV	-	NNCF 5060 V
320	400	80	897	2280	630	800	24	NNC 4864 CV	NNC 4864 CV	-	NNC 4864 V
320	400	80	897	2280	630	800	23.5	NNCF 4864 CV	NNCF 4864 CV	-	NNCF 4864 V
320	400	80	897	2280	630	800	23	NNCL 4864 CV	NNCL 4864 CV	-	NNCL 4864 V
320	440	118	1760	4050	600	750	56	NNC 4964 CV	NNC 4964 CV	-	NNC 4964 V
320	440	118	1760	4050	600	750	55.5	NNCF 4964 CV	NNCF 4964 CV	-	NNCF 4964 V
320	440	118	1760	4050	600	750	55	NNCL 4964 CV	NNCL 4964 CV	-	NNCL 4964 V
320	480	218	3690	6950	560	700	135	NNCF 5064 CV	NNCF 5064 CV	-	NNCF 5064 V
340	420	80	913	2400	600	750	25.5	NNC 4868 CV	NNC 4868 CV	-	NNC 4868 V
340	420	80	913	2400	600	750	25	NNCF 4868 CV	NNCF 4868 CV	-	NNCF 4868 V
340	420	80	913	2400	600	750	25.3	NNCL 4868 CV	NNCL 4868 CV	-	NNCL 4868 V
340	460	118	1790	4250	560	700	59	NNC 4968 CV	NNC 4968 CV	-	NNC 4968 V
340	460	118	1790	4250	560	700	58.5	NNCF 4968 CV	NNCF 4968 CV	-	NNCF 4968 V
340	460	118	1790	4250	560	700	57.8	NNCL 4968 CV	NNCL 4968 CV	-	NNCL 4968 V
340	520	243	4400	8300	530	670	185	NNCF 5068 CV	NNCF 5068 CV	-	NNCF 5068 V
360	440	80	935	2550	560	700	27	NNC 4872 CV	NNC 4872 CV	-	NNC 4872 V
360	440	80	935	2550	560	700	26.5	NNCF 4872 CV	NNCF 4872 CV	-	NNCF 4872 V
360	440	80	935	2550	560	700	26	NNCL 4872 CV	NNCL 4872 CV	-	NNCL 4872 V
360	480	118	1830	4500	530	670	62.1	NNC 4972 CV	NNC 4972 CV	-	NNC 4972 V
360	480	118	1830	4500	530	670	61.5	NNCF 4972 CV	NNCF 4972 CV	-	NNCF 4972 V
360	480	118	1830	4500	530	670	60.8	NNCL 4972 CV	NNCL 4972 CV	-	NNCL 4972 V
360	540	243	4460	8650	500	630	195	NNCF 5072 CV	NNCF 5072 CV	-	NNCF 5072 V
380	480	100	1400	3650	530	670	45.5	NNC 4876 CV	NNC 4876 CV	-	NNC 4876 V
380	480	100	1400	3650	530	670	44.8	NNCF 4876 CV	NNCF 4876 CV	-	NNCF 4876 V
380	480	100	1400	3650	530	670	44	NNCL 4876 CV	NNCL 4876 CV	-	NNCL 4876 V
380	520	140	2380	5700	500	630	92.4	NNC 4976 CV	NNC 4976 CV	-	NNC 4976 V
380	520	140	2380	5700	500	630	91.5	NNCF 4976 CV	NNCF 4976 CV	-	NNCF 4976 V
380	520	140	2380	5700	500	630	90.5	NNCL 4976 CV	NNCL 4976 CV	-	NNCL 4976 V
380	560	243	4680	9150	480	600	200	NNCF 5076 CV	NNCF 5076 CV	-	NNCF 5076 V
400	500	100	1420	3750	500	630	46.5	NNC 4880 CV	NNC 4880 CV	-	NNC 4880 V
400	500	100	1420	3750	500	630	46.2	NNCF 4880 CV	NNCF 4880 CV	-	NNCF 4880 V
400	500	100	1420	3750	500	630	45.9	NNCL 4880 CV	NNCL 4880 CV	-	NNCL 4880 V
400	540	140	2420	6000	480	600	95.5	NNC 4980 CV	NNC 4980 CV	-	NNC 4980 V
400	540	140	2420	6000	480	600	96.5	NNCF 4980 CV	NNCF 4980 CV	-	NNCF 4980 V
400	540	140	2420	6000	480	600	94.5	NNCL 4980 CV	NNCL 4980 CV	-	NNCL 4980 V
400	600	272	5500	11000	450	560	270	NNCF 5080 CV	NNCF 5080 CV	-	NNCF 5080 V

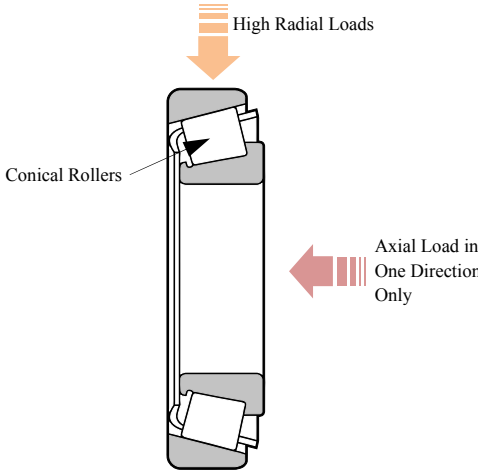
TAPERED ROLLER BEARINGS

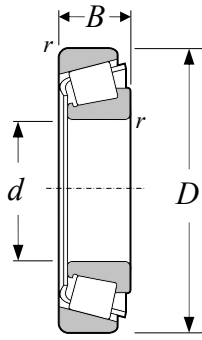
Tapered roller bearings are designed to particularly accommodate combined loads, which are radial and axial loads simultaneously. The inner and outer rings of tapered roller bearings are both tapered where the conical rollers are arranged. The axial projection lines of these conical rollers are meeting at a common point of the bearing axis. The greater the angle (α) of these projection lines comes with the greater capability of the bearings to carry axial loads. Tapered roller bearings are generally separable, the cone which consisting of the conical rollers and cage assemblies can be mounted separately from the outer ring.



Single Row Tapered Roller Bearings

Single row tapered roller bearings has one row of conical rollers guided in the tapered raceway at a certain angle. They support high combination of simultaneous radial and axial loads. However, single row tapered roller bearings are able to carry axial load in one direction only.





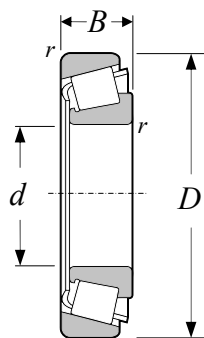
TAPERED ROLLER BEARINGS
Single Row

Table 107
Bore Diameter 15mm - 40mm

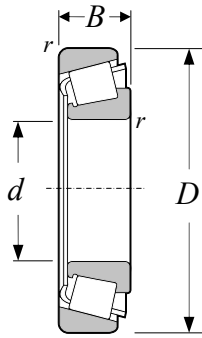
Principal Dimensions			Basic Load Ratings		Speed Ratings		Mass	Designations			
d	D	B	Dynamic	Static	Ref. Speed	Limiting Speed		Local	SKF	FAG	NSK
mm			C	C ₀	r/min		kg				
15	42	14.25	22.4	20	13000	18000	0.095	30302 J	30302 J2	30302 A	30302 J
17	40	13.25	19	18.6	13000	18000	0.075	30203 J	30203 J2	30203 A	30203 J
17	47	15.25	28.1	25	12000	16000	0.13	30303 J	30303 J2	30303 A	30303 J
17	47	20.25	34.7	33.5	11000	16000	0.17	32303 J	32303 J2/Q	32303 A	32303 J
20	42	15	24.2	27	12000	16000	0.097	32004 J	32004 X/Q	32004 A	32004 J
20	47	15.25	27.5	28	11000	15000	0.12	30204 J	30204 J2/Q	30204 A	30204 J
20	52	16.25	34.1	32.5	11000	14000	0.17	30304 J	30304 J2/Q	30304 A	30304 J
20	52	22.25	44	45.5	10000	14000	0.23	32304 J	32304 J2/Q	32304 A	32304 J
22	44	15	25.1	29	11000	15000	0.1	320/22 J	320/22 X	320/22 A	320/22 J
25	47	15	27	32.5	11000	14000	0.11	32005 J	32005 X/Q	32005 A	32005 J
25	52	16.25	30.8	33.5	10000	13000	0.15	30205 J	30205 J2/Q	30205 A	30205 J
25	52	19.25	35.8	44	9500	13000	0.19	32205 J	32205 BJ2/Q	32205 A	32205 J
25	52	22	47.3	56	10000	13000	0.23	33205 J	33205 Q	33205 A	33205 J
25	62	18.25	44.6	43	9000	12000	0.26	30305 J	30305 J2	30305 A	30305 J
25	62	18.25	38	40	7500	11000	0.26	31305 J	31305 J2	31305 A	31305 J
25	62	25.25	60.5	63	8000	12000	0.36	32305 J	32305 J2	32305 A	32305 J
28	52	16	31.9	38	10000	13000	0.15	320/28 J	320/28 X/Q	320/28 A	320/28 J
28	58	17.25	38	41.5	9000	12000	0.25	302/28 J	302/28 J2	302/28 A	302/28 J
28	58	20.25	41.8	50	8500	12000	0.25	322/28 J	322/28 BJ2/Q	322/28 A	322/28 J
30	55	17	35.8	44	9000	12000	0.17	32006 J	32006 X/Q	32006 A	32006 J
30	62	17.25	40.2	44	8500	11000	0.23	30206 J	30206 J2/Q	30206 A	30206 J
30	62	21.25	49.5	58.5	8000	11000	0.3	32206 J	32206 BJ2/QCL7CVA606	32206 A	32206 J
30	62	21.25	50.1	57	8500	11000	0.28	32206 J	32206 J2/Q	32206 A	32206 J
30	62	25	64.4	76.5	7500	11000	0.37	33206 J	33206 Q	33206 A	33206 J
30	72	20.75	56.1	56	7500	10000	0.39	30306 J	30306 J2/Q	30306 A	30306 J
30	72	20.75	47.3	50	6700	9500	0.39	31306 J	31306 J2/Q	31306 A	31306 J
30	72	28.75	76.5	85	7000	10000	0.55	32306 J	32306 J2/Q	32306 A	32306 J
32	58	17	36.9	46.5	8500	11000	0.19	320/32 J	320/32 X/Q	320/32 A	320/32 J
35	62	18	37.4	49	8000	11000	0.22	32007 J	32007 J2/Q	32007 A	32007 J
35	62	18	42.9	54	8500	11000	0.22	32007 J	32007 X/Q	32007 A	32007 J
35	72	18.25	51.2	56	7000	9500	0.32	30207 J	30207 J2/Q	30207 A	30207 J
35	72	24.25	66	78	7000	9500	0.43	32207 J	32207 J2/Q	32207 A	32207 J
35	72	28	84.2	106	6300	9500	0.56	33207 J	33207 Q	33207 A	33207 J
35	80	22.75	72.1	73.5	6700	9000	0.52	30307 J	30307 J2/Q	30307 A	30307 J
35	80	22.75	72.1	73.5	6700	9000	0.52	30307 J	30307 RJ2/Q	30307 A	30307 J
35	80	22.75	61.6	67	6000	8500	0.52	31307 J	31307 J2/Q	31307 A	31307 J
35	80	32.75	93.5	114	6000	8500	0.8	32307 J	32307 BJ2/Q	32307 A	32307 J
35	80	32.75	95.2	106	6300	9000	0.73	32307 J	32307 J2/Q	32307 A	32307 J
37	80	32.75	93.5	114	6000	8500	0.8	32307/37 J	32307/37 BJ2/Q	32307/37 A	32307/37 J
38	68	19	52.8	71	7000	9500	0.27	32008/38 J	32008/38 X/Q	32008/38 A	32008/38 J
40	68	19	52.8	71	7000	9500	0.27	32008 J	32008 X/Q	32008 A	32008 J
40	68	19	52.8	71	7000	9500	0.27	32008 J	32008 XR/QVA621	32008 A	32008 J
40	68	19	52.8	71	7000	9500	0.27	32008 T	32008 XTN9/Q	32008 TVP	32008 T
40	75	26	79.2	104	6700	9000	0.51	33108 J	33108 Q	33108 A	33108 J
40	80	19.75	61.6	68	6300	8500	0.42	30208 J	30208 J2/Q	30208 A	30208 J
40	80	19.75	61.6	68	6300	8500	0.42	30208 J	30208 RJ2/Q	30208 A	30208 J
40	80	24.75	78.8	86.5	6300	8500	0.53	32208 J	32208 J2/Q	32208 A	32208 J
40	80	32	105	132	5600	8500	0.77	33208 J	33208 QCL7C	33208 A	33208 J
40	90	25.25	85.8	95	6000	8000	0.72	30308 J	30308 J2/Q	30308 A	30308 J
40	90	25.25	85	81.5	5600	7500	0.72	31308 J	31308 J2/QCL7C	31308 A	31308 J

TAPERED ROLLER BEARINGS
Single Row

Table 108
Bore Diameter 40mm - 65mm



Principal Dimensions			Basic Load Ratings		Speed Ratings		Mass	Designations			
d	D	B	Dynamic	Static	Ref. Speed	Limiting Speed		Local	SKF	FAG	NSK
mm			C	C ₀	r/min		kg				
40	90	35.25	117	140	5300	8000	1	32308 J	32308 J2/Q	32308 A	32308 J
45	75	20	58.3	80	6300	8500	0.34	32009 J	32009 X/Q	32009 A	32009 J
45	80	26	96.5	114	6700	8000	0.56	33109 J	33109 Q	33109 A	33109 J
45	85	20.75	66	76.5	6000	8000	0.48	30209 J	30209 J2/Q	30209 A	30209 J
45	85	24.75	91.5	98	6300	8000	0.58	32209 J	32209 J2/Q	32209 A	32209 J
45	85	32	108	143	5300	7500	0.82	33209 J	33209 Q	33209 A	33209 J
45	90	24.75	82.5	104	5300	8000	0.65	32210/45 J	32210/45 BJ2/QVB022	32210/45 A	32210/45 J
45	100	27.25	108	120	5300	7000	0.97	30309 J	30309 J2/Q	30309 A	30309 J
45	100	27.25	106	102	5000	6700	0.95	31309 J	31309 J2/QCL7C	31309 A	31309 J
45	100	38.25	134	176	4800	6700	1.45	32309 J	32309 BJ2/QCL7C	32309 A	32309 J
45	100	38.25	134	176	4800	6700	1.5	32309 J	32309 BRJ2/QCL7C	32309 A	32309 J
45	100	38.25	140	170	4800	7000	1.35	32309 J	32309 J2/Q	32309 A	32309 J
50	80	20	60.5	88	6000	8000	0.37	32010 J	32010 X/Q	32010 A	32010 J
50	80	20	60.5	88	6000	8000	0.37	32010 J	32010 X/QCL7CVB026	32010 A	32010 J
50	80	24	69.3	102	6000	8000	0.45	33010 J	33010 Q	33010 A	33010 J
50	85	26	85.8	122	5600	7500	0.59	33110 J	33110 Q	33110 A	33110 J
50	90	21.75	76.5	91.5	5600	7500	0.54	30210 J	30210 J2/Q	30210 A	30210 J
50	90	24.75	82.5	100	5600	7500	0.61	32210 J	32210 J2/Q	32210 A	32210 J
50	90	32	114	160	5000	7000	0.9	33210 J	33210 Q	33210 A	33210 J
50	110	29.25	143	140	5300	6300	1.25	30310 J	30310 J2/Q	30310 A	30310 J
50	110	29.25	122	120	4500	6000	1.2	31310 J	31310 J2/QCL7C	31310 A	31310 J
50	110	42.25	183	216	4500	6000	1.85	32310 J	32310 BJ2/QCL7C	32310 A	32310 J
50	110	42.25	172	212	4300	6300	1.8	32310 J	32310 J2/Q	32310 A	32310 J
50	110	42.25	172	212	4300	6300	1.8	32310 T	32310 TN9	32310 TVP	32310 T
55	90	23	80.9	116	5300	7000	0.55	32011 J	32011 X/Q	32011 A	32011 J
55	90	27	104	137	5600	7000	0.67	33011 J	33011 Q	33011 A	33011 J
55	95	30	110	156	5000	6700	0.86	33111 J	33111 Q	33111 A	33111 J
55	100	22.75	104	106	5300	6700	0.7	30211 J	30211 J2/Q	30211 A	30211 J
55	100	26.75	106	129	5000	6700	0.83	32211 J	32211 J2/Q	32211 A	32211 J
55	100	35	138	190	4500	6300	1.2	33211 J	33211 Q	33211 A	33211 J
55	120	31.5	166	163	4800	5600	1.55	30311 J	30311 J2/Q	30311 A	30311 J
55	120	31.5	121	137	3800	5600	1.55	31311 J	31311 J2/QCL7C	31311 A	31311 J
55	120	45.5	216	260	4300	5600	2.5	32311 J	32311 BJ2/QCL7C	32311 A	32311 J
55	120	45.5	216	260	4300	5600	2.5	32311 J	32311 BRJ2/QCL7C	32311 A	32311 J
55	120	45.5	198	250	4000	5600	2.3	32311 J	32311 J2	32311 A	32311 J
60	95	23	95	122	5300	6700	0.59	32012 J	32012 X/QCL7C	32012 A	32012 J
60	95	27	106	143	5300	6700	0.71	33012 J	33012 Q	33012 A	33012 J
60	100	30	117	170	4800	6300	0.92	33112 J	33112 Q	33112 A	33112 J
60	110	23.75	112	114	5000	6000	0.88	30212 J	30212 J2/Q	30212 A	30212 J
60	110	29.75	125	160	4500	6000	1.15	32212 J	32212 J2/Q	32212 A	32212 J
60	110	38	168	236	4000	6000	1.6	33212 J	33212 Q	33212 A	33212 J
60	130	33.5	168	196	4000	5300	1.95	30312 J	30312 J2/Q	30312 A	30312 J
60	130	33.5	145	166	3600	5300	1.9	31312 J	31312 J2/Q	31312 A	31312 J
60	130	48.5	220	305	3600	5000	2.8	32312 J	32312 BJ2/QCL7C	32312 A	32312 J
60	130	48.5	229	290	3600	5300	2.85	32312 J	32312 J2/Q	32312 A	32312 J
65	100	23	96.5	127	5000	6000	0.63	32013 J	32013 X/Q	32013 A	32013 J
65	100	27	110	153	5000	6300	0.78	33013 J	33013 Q	33013 A	33013 J
65	110	34	142	208	4300	5600	1.3	33113 J	33113 R/Q	33113 A	33113 J
65	110	34	142	208	4300	5600	1.3	33113 J	33113 Q	33113 A	33113 J
65	120	24.75	132	134	4500	5600	1.15	30213 J	30213 J2/Q	30213 A	30213 J



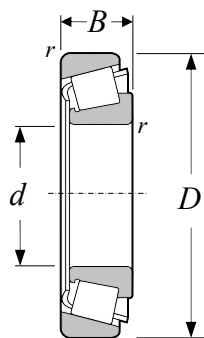
TAPERED ROLLER BEARINGS
Single Row

Table 109
Bore Diameter 65mm - 90mm

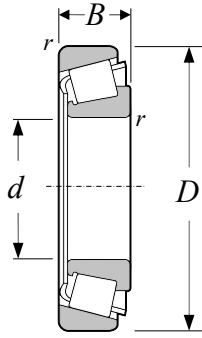
Principal Dimensions			Basic Load Ratings		Speed Ratings		Mass	Designations			
d	D	B	Dynamic C	Static C ₀	Ref. Speed	Limiting Speed		Local	SKF	FAG	NSK
mm			kN		r/min		kg				
65	120	32.75	151	193	4000	5600	1.5	32213 J	32213 J2/Q	32213 A	32213 J
65	120	41	194	270	3800	5300	2.05	33213 T	33213 TN9/Q	33213 TVP	33213 T
65	120	41	194	270	3800	5300	2.05	33213 J	33213 Q	33213 A	33213 J
65	140	36	194	228	3600	4800	2.4	30313 J	30313 J2/Q	30313 A	30313 J
65	140	36	194	228	3600	4800	2.4	30313 J	30313 RJ2	30313 A	30313 J
65	140	36	165	193	3200	4800	2.35	31313 J	31313 J2/QCL7C	31313 A	31313 J
65	140	51	246	345	3200	4800	3.35	32313 J	32313 BJ2/QU4CL7CVQ267	32313 A	32313 J
65	140	51	264	335	3400	4800	3.45	32313 J	32313 J2/Q	32313 A	32313 J
70	110	25	101	153	4300	5600	0.84	32014 J	32014 X/Q	32014 A	32014 J
70	110	31	130	196	4300	5600	1.1	33014 J	33014 Q	33014 A	33014 J
70	120	37	172	250	4000	5300	1.7	33114 J	33114 Q	33114 A	33114 J
70	125	26.25	125	156	4000	5300	1.25	30214 J	30214 J2/Q	30214 A	30214 J
70	125	33.25	157	208	3800	5300	1.6	32214 J	32214 J2/Q	32214 A	32214 J
70	125	41	201	285	3600	5000	2.1	33214 J	33214 Q	33214 A	33214 J
70	150	38	220	260	3400	4500	2.9	30314 J	30314 J2/Q	30314 A	30314 J
70	150	38	187	220	3000	4500	2.95	31314 J	31314 J2/QCL7C	31314 A	31314 J
70	150	54	281	400	3000	4300	4.25	32314 J	32314 BJ2/QCL7C	32314 A	32314 J
70	150	54	297	380	3200	4500	4.3	32314 J	32314 J2/Q	32314 A	32314 J
75	105	20	70.4	116	4300	6300	0.52	32915 T	32915 TN9/QVG900	32915 TVP	32915 T
75	115	25	106	163	4000	5300	0.9	32015 J	32015 X/Q	32015 A	32015 J
75	115	31	134	228	4000	5300	1.15	33015 J	33015 Q	33015 A	33015 J
75	125	37	176	265	3800	5000	1.8	33115 J	33115 Q	33115 A	33115 J
75	130	27.25	140	176	3800	5000	1.4	30215 J	30215 J2/Q	30215 A	30215 J
75	130	33.25	161	212	3600	5000	1.7	32215 J	32215 J2/Q	32215 A	32215 J
75	130	41	209	300	3400	4800	2.25	33215 J	33215 Q	33215 A	33215 J
75	160	40	246	290	3200	4300	3.45	30315 J	30315 J2/Q	30315 A	30315 J
75	160	40	209	245	2800	4300	3.5	31315 J	31315 J2/QCL7C	31315 A	31315 J
75	160	58	336	475	2800	4000	5.55	32315 J	32315 BJ2/QCL7C	32315 A	32315 J
75	160	58	336	440	3000	4300	5.2	32315 J	32315 J2	32315 A	32315 J
80	125	29	138	216	3600	5000	1.3	32016 J	32016 X/Q	32016 A	32016 J
80	125	36	168	285	3600	5000	1.65	33016 J	33016 Q	33016 A	33016 J
80	130	37	179	280	3600	4800	1.9	33116 T	33116 TN9/Q	33116 TVP	33116 T
80	130	37	179	280	3600	4800	1.9	33116 J	33116 Q	33116 A	33116 J
80	140	28.25	151	183	3400	4800	1.6	30216 J	30216 J2/Q	30216 A	30216 J
80	140	35.25	187	245	3400	4500	2.05	32216 J	32216 J2/Q	32216 A	32216 J
80	140	46	251	375	3200	4500	2.9	33216 J	33216 Q	33216 A	33216 J
80	170	42.5	270	320	3000	4300	4.1	30316 J	30316 J2	30316 A	30316 J
80	170	42.5	224	265	2800	4000	4.05	31316 J	31316 J1/QCL7C	31316 A	31316 J
80	170	61.5	380	500	3000	4300	6.2	32316 J	32316 J2	32316 A	32316 J
85	130	29	140	224	3400	4800	1.35	32017 J	32017 X/Q	32017 A	32017 J
85	130	36	183	310	3600	4800	1.75	33017 J	33017 Q	33017 A	33017 J
85	140	41	220	340	3400	4500	2.45	33117 J	33117 Q	33117 A	33117 J
85	150	30.5	176	220	3200	4300	2.05	30217 J	30217 J2/Q	30217 A	30217 J
85	150	38.5	212	285	3200	4300	2.6	32217 J	32217 J2/Q	32217 A	32217 J
85	150	49	286	430	3000	4300	3.7	33217 J	33217 Q	33217 A	33217 J
85	180	44.5	303	365	2800	4000	4.85	30317 J	30317 J2	30317 A	30317 J
85	180	44.5	242	285	2600	3800	4.6	31317 J	31317 J2	31317 A	31317 J
85	180	63.5	391	560	2800	4000	7.5	32317 J	32317 BJ2	32317 A	32317 J
85	180	63.5	402	530	2800	4000	6.85	32317 J	32317 J2	32317 A	32317 J
90	140	32	168	270	3200	4300	1.75	32018 J	32018 X/Q	32018 A	32018 J

TAPERED ROLLER BEARINGS
Single Row

Table 110
Bore Diameter 90mm - 130mm



Principal Dimensions			Basic Load Ratings		Speed Ratings		Mass	Designations			
d	D	B	Dynamic	Static	Ref. Speed	Limiting Speed		Local	SKF	FAG	NSK
mm			C	C ₀	r/min		kg				
90	140	39	216	355	3200	4500	2.2	33018 J	33018 Q	33018 A	33018 J
90	150	45	251	390	3000	4300	3.1	33118 T	33118 TN9/Q	33118 TVP	33118 T
90	150	45	251	390	3000	4300	3.1	33118 J	33118 Q	33118 A	33118 J
90	160	32.5	194	245	3000	4000	2.55	30218 J	30218 J2	30218 A	30218 J
90	160	42.5	251	340	3000	4000	3.35	32218 J	32218 J2/Q	32218 A	32218 J
90	190	46.5	330	400	2600	4000	5.65	30318 J	30318 J2	30318 A	30318 J
90	190	46.5	264	315	2400	3400	5.9	31318 J	31318 J2	31318 A	31318 J
90	190	67.5	457	610	2600	4000	8.4	32318 J	32318 J2	32318 A	32318 J
95	145	32	168	270	3200	4300	1.8	32019 J	32019 X/Q	32019 A	32019 J
95	145	39	220	375	3200	4300	2.3	33019 J	33019 Q	33019 A	33019 J
95	170	34.5	216	275	2800	3800	3	30219 J	30219 J2	30219 A	30219 J
95	170	45.5	281	390	2800	3800	4.05	32219 J	32219 J2	32219 A	32219 J
95	200	49.5	330	390	2600	3400	6.7	30319	30319	30319	30319
95	200	49.5	292	355	2400	3400	6.95	31319 J	31319 J2	31319 A	31319 J
95	200	71.5	501	670	2400	3400	11	32319 J	32319 J2	32319 A	32319 J
100	140	25	119	204	3200	4800	1.15	32920 J	32920 Q	32920 A	32920 J
100	150	32	172	280	3000	4000	1.9	32020 J	32020 X/Q	32020 A	32020 J
100	150	39	224	390	3000	4000	2.4	33020 J	33020 Q	33020 A	33020 J
100	180	37	246	320	2800	3600	3.65	30220 J	30220 J2	30220 A	30220 J
100	180	49	319	440	2600	3600	4.9	32220 J	32220 J2	32220 A	32220 J
100	180	63	429	655	2400	3600	6.95	33220	33220	33220	33220
100	215	51.5	402	490	2400	3200	8.05	30320 J	30320 J2	30320 A	30320 J
100	215	56.5	374	465	2200	3000	8.6	31320 J	31320 XJ2/CL7CVQ051	31320 A	31320 J
100	215	77.5	572	780	2200	3000	12.5	32320 J	32320 J2	32320 A	32320 J
105	160	35	201	335	2800	3800	2.4	32021 J	32021 X/Q	32021 A	32021 J
105	160	43	246	430	2800	3800	3.05	33021 J	33021 Q	33021 A	33021 J
105	190	39	270	355	2600	3400	4.25	30221 J	30221 J2	30221 A	30221 J
105	190	53	358	510	2600	3400	6	32221 J	32221 J2	32221 A	32221 J
105	225	81.5	605	815	2000	3000	14.5	32321 J	32321 J2	32321 A	32321 J
110	150	25	125	224	3000	4300	1.25	32922 J	32922 X/Q	32922 A	32922 J
110	170	38	233	390	2600	3600	3.05	32022 J	32022 X/Q	32022 A	32022 J
110	170	47	281	500	2600	3600	3.85	33022	33022	33022	33022
110	180	56	369	630	2600	3400	5.55	33122	33122	33122	33122
110	200	41	308	405	2400	3200	5.1	30222 J	30222 J2	30222 A	30222 J
110	200	56	402	570	2400	3200	7.1	32222 J	32222 J2	32222 A	32222 J
110	240	54.5	473	585	2200	2800	11	30322 J	30322 J2	30322 A	30322 J
110	240	63	457	585	1900	2800	12	31322 J	31322 XJ2	31322 A	31322 J
110	240	84.5	627	830	1900	2800	17	32322	32322	32322	32322
120	165	29	165	305	2600	3800	1.8	32924	32924	32924	32924
120	180	38	242	415	2400	3400	3.25	32024 J	32024 X	32024 A	32024 J
120	180	48	292	540	2600	3400	4.2	33024	33024	33024	33024
120	215	43.5	341	465	2200	3000	6.15	30224 J	30224 J2	30224 A	30224 J
120	215	61.5	468	695	2200	3000	9.15	32224 J	32224 J2	32224 A	32224 J
120	260	59.5	561	710	2000	2600	14	30324 J	30324 J2	30324 A	30324 J
120	260	68	539	695	1700	2400	15.5	31324 J	31324 XJ2	31324 A	31324 J
120	260	90.5	792	1120	1800	2600	21.5	32324 J	32324 J2	32324 A	32324 J
130	180	32	198	365	2400	3600	2.4	32926	32926	32926	32926
130	200	45	314	540	2200	3000	4.95	32026 J	32026 X	32026 A	32026 J
130	230	43.75	369	490	2000	2800	7.6	30226 J	30226 J2	30226 A	30226 J
130	230	67.75	550	830	2000	2800	11.5	32226 J	32226 J2	32226 A	32226 J



TAPERED ROLLER BEARINGS
Single Row

Table 111
Bore Diameter 130mm - 360mm

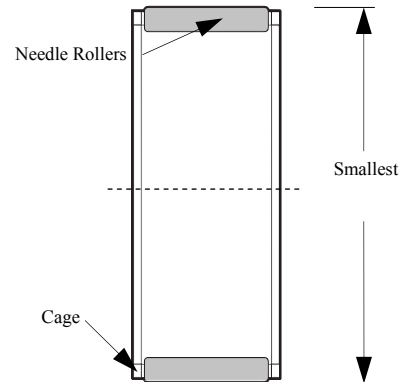
Principal Dimensions			Basic Load Ratings		Speed Ratings		Mass	Designations			
d	D	B	Dynamic	Static	Ref. Speed	Limiting Speed		Local		SKF	FAG
mm			C	C ₀	r/min		kg				
130	280	63.75	627	800	1800	2400	17	30326 J	30326 J2	30326 A	30326 J
130	280	72	605	780	1600	2400	18.5	31326 J	31326 XJ2	31326 A	31326 J
140	190	32	205	390	2200	3400	2.55	32928	32928	32928	32928
140	210	45	330	585	2200	2800	5.25	32028 J	32028 X	32028 A	32028 J
140	250	45.75	418	570	1900	2600	8.65	30228 J	30228 J2	30228 A	30228 J
140	250	71.75	644	1000	1900	2600	14.5	32228 J	32228 J2	32228 A	32228 J
140	300	77	693	900	1500	2200	24.5	31328 J	31328 XJ2	31328 A	31328 J
150	225	48	369	655	2000	2600	6.35	32030 J	32030 X	32030 A	32030 J
150	225	59	457	865	2000	2600	8.15	33030	33030	33030	33030
150	270	49	429	560	1800	2400	11	30230	30230	30230	30230
150	270	77	737	1140	1700	2400	17.5	32230 J	32230 J2	32230 A	32230 J
150	320	82	781	1020	1400	2000	29.5	31330 J	31330 XJ2	31330 A	31330 J
160	240	51	429	780	1800	2400	7.75	32032 J	32032 X	32032 A	32032 J
160	290	52	528	735	1600	2200	13	30232 J	30232 J2	30232 A	30232 J
160	290	84	880	1400	1600	2200	25.5	32232 J	32232 J2	32232 A	32232 J
160	340	75	913	1180	1500	2000	29	30332 J	30332 J2	30332 A	30332 J
170	230	38	286	585	1900	2800	4.5	32934	32934	32934	32934
170	260	57	512	915	1700	2200	10.5	32034 J	32034 X	32034 A	32034 J
170	310	57	616	865	1500	2000	19	30234 J	30234 J2	30234 A	30234 J
170	310	91	1010	1630	1500	2000	28.5	32234 J	32234 J2	32234 A	32234 J
180	250	45	352	735	1700	2600	6.65	32936	32936	32936	32936
180	280	64	644	1160	1600	2200	14.5	32036 J	32036 X	32036 A	32036 J
180	320	57	583	815	1500	2000	20	30236 J	30236 J2	30236 A	30236 J
180	320	91	1010	1630	1400	1900	29.5	32236 J	32236 J2	32236 A	32236 J
190	260	45	358	765	1600	2400	7	32938	32938	32938	32938
190	290	64	660	1200	1500	2000	15	32038 J	32038 X	32038 A	32038 J
190	340	60	721	1000	1400	1800	24	30238 J	30238 J2	30238 A	30238 J
200	280	51	473	950	1500	2200	9.5	32940	32940	32940	32940
200	310	70	748	1370	1400	1900	19.5	32040 J	32040 X	32040 A	32040 J
200	360	64	792	1120	1300	1700	25	30240 J	30240 J2	30240 A	30240 J
200	360	104	1210	2000	1300	1700	42.5	32240 J	32240 J2	32240 A	32240 J
220	300	51	484	1000	1400	2000	10	32944	32944	32944	32944
220	340	76	897	1660	1300	1700	25.5	32044 J	32044 X	32044 A	32044 J
220	400	72	990	1400	1200	1600	40	30244 J	30244 J2	30244 A	30244 J
220	400	114	1610	2700	1100	1500	60	32244 J	32244 J2	32244 A	32244 J
240	320	51	512	1080	1300	1900	11	32948	32948	32948	32948
240	360	76	935	1800	1200	1600	27.5	32048 J	32048 X	32048 A	32048 J
240	440	127	1940	3350	1000	1400	81.5	32248 J	32248 J2/HA1	32248 A	32248 J
260	400	87	1170	2200	1100	1400	40	32052 J	32052 X	32052 A	32052 J
260	480	137	2200	3650	900	1200	105	32252 J	32252 J2/HA1	32252 A	32252 J
260	540	113	2120	3050	850	1200	110	30352 J	30352 J2	30352 A	30352 J
280	380	63.5	765	1660	1100	1600	20	32956 J	32956 C02	32956 A	32956 J
280	420	87	1210	2360	1000	1300	40.5	32056 J	32056 X	32056 A	32056 J
300	420	76	1050	2240	950	1400	32	32960	32960	32960	32960
300	460	100	1540	3000	900	1200	58	32060 J	32060 X	32060 A	32060 J
300	540	149	2750	4750	800	1100	140	32260 J	32260 J2/HA1	32260 A	32260 J
320	440	76	1080	2360	900	1300	33.5	32964	32964	32964	32964
320	480	100	1540	3100	850	1100	64	32064 J	32064 X	32064 A	32064 J
340	460	76	1080	2400	850	1300	35	32968	32968	32968	32968
360	480	76	1120	2550	800	1200	37	32972	32972	32972	32972

NEEDLE ROLLER BEARINGS

The rolling elements of needle roller bearings are basically cylindrical rollers, but they are long and thin relatively to their diameter. The needle roller bearing has low cross section, but possessing high load carrying capacity, and therefore they are particularly suitable in applications where there is constraint of radial installation space. Needle roller bearings are presents in many designs and sizes, such as needle roller and cage assemblies, drawn cup needle roller bearings, as well as cam rollers and cam followers are also categorized as needle roller bearings.

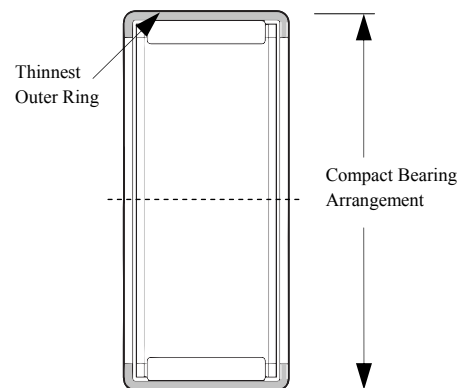
Needle Rollers and Cage Assemblies

The cage of the needle rollers and cage assemblies is acting an important role for the bearings to operate at high speed, in addition to high load carrying capacity. There are neither inner rings nor outer rings, the cage holds the needle rollers, with its' low cross section that provides the maximum load carrying capacity, and within the smallest radial space among all types of bearings. The cage is uniquely designed to precisely hold the needle rollers to possibly reduce stresses of bearing during operations, and allowing moderate shaft misalignment so that to extend the bearings life span.



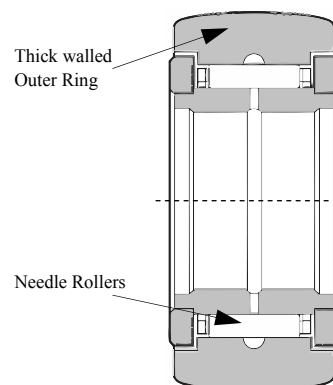
Drawn Cup Needle Roller Bearings

Drawn cup needle roller bearings has very uniquely designed thin walled outer ring structures, with either open or closed end. The drawn cup is the thinnest outer rings among all types of rolling bearings. In spite of its' thin outer rings, drawn cup needle roller bearings has capability of carrying high radial loads. The bearings' unique characteristics are suitable for application where the housing bore cannot be used as raceway for needle roller and cage assemblies, but requiring a very compact bearing arrangement.



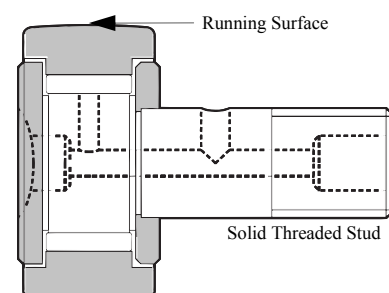
Cam Rollers

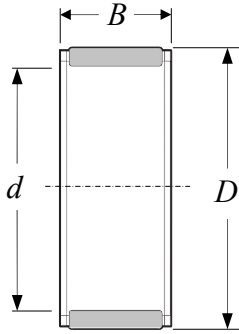
Cam rollers are designed to be non-separating unit to handle large loads and shock loads. It has thick walled outer rings and crowned roller surface, and it is pre-greased ready to mount unit. Cam rollers are widely used in industrial automation applications, such as cam drives and conveyor systems.



Cam Followers

Cam followers has similar internal design to cylindrical roller bearings, it has thick walled outer ring that enable it to withstand for heavy and shock loads and reducing distortion and bending stresses. The running surface of cam followers is available in crowned or flattened type. Cam followers do not have inner rings, but a solid threaded stud or pin that can be quickly attached to installation equipments. It has wide applications in cam drives, tracks, and conveyor systems.





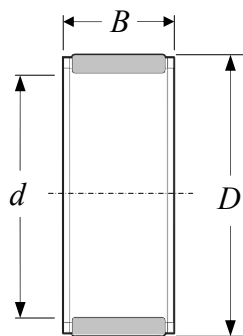
NEEDLE ROLLER BEARINGS
Needle Roller & Cage Assemblies

Table 112
Diameter 3mm - 17mm

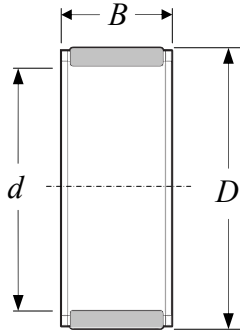
Principal Dimensions			Basic Load Ratings		Speed Ratings		Mass	Designations			
d	D	B	Dynamic	Static	Ref. Speed	Limiting Speed		Local	SKF	FAG	NSK
mm			C	C ₀	r/min		kg				
3	5	7	1.51	1.34	40000	45000	0.0003	K3X5X7-TV	K 3x5x7 TN	K3X5X7-TV	-
3	5	9	1.72	1.63	38000	43000	0.0004	K3X5X9-TV	K 3x5x9 TN	K3X5X9-TV	-
3	6	7	1.42	1.02	38000	43000	0.0004	K3X6X7-TV	K 3x6x7 TN	K3X6X7-TV	-
4	7	7	1.72	1.32	36000	43000	0.0005	K4X7X7-TV	K 4x7x7 TN	K4X7X7-TV	FBNP-477
4	7	10	2.29	1.9	36000	43000	0.0007	K4X7X10-TV	K 4x7x10 TN	K4X7X10-TV	-
5	8	8	2.29	2	36000	40000	0.0007	K5X8X8-TV	K 5x8x8 TN	K5X8X8-TV	FBNP-588
5	8	10	2.92	2.7	36000	40000	0.0009	K5X8X10-TV	K 5x8x10 TN	K5X8X10-TV	-
6	9	8	2.55	2.36	34000	38000	0.0008	K6X9X8-TV	K 6x9x8 TN	K6X9X8-TV	FBNP-698
6	9	10	3.3	3.2	34000	38000	0.0011	K6X9X10-TV	K 6x9x10 TN	K6X9X10-TV	FBNP-6910
6	10	13	3.69	3.15	34000	38000	0.0019	K6X10X13-TV	K 6x10x13 TN	K6X10X13-TV	FBNP-61013
7	9	7	1.68	1.83	34000	38000	0.0006	K7X9X7-TV	K 7x9x7 TN	K7X9X7-TV	-
7	10	8	2.81	2.75	32000	36000	0.0009	K7X10X8-TV	K 7x10x8 TN	K7X10X8-TV	FBNP-7108
7	10	10	3.58	3.75	32000	36000	0.001	K7X10X10-TV	K 7x10x10 TN	K7X10X10-TV	FBNP-71010
8	11	8	3.03	3.1	32000	36000	0.001	K8X11X8-TV	K 8x11x8 TN	K8X11X8-TV	FBNP-8118
8	11	10	3.8	4.25	32000	36000	0.0012	K8X11X10-TV	K 8x11x10 TN	K8X11X10-TV	FBNP-81110
8	11	13	5.01	5.85	32000	36000	0.0017	K8X11X13-TV	K 8x11x13 TN	K8X11X13-TV	FBNP-81113
8	12	10	4.84	4.75	30000	34000	0.002	K8X12X10-TV	K 8x12x10 TN	K8X12X10-TV	-
9	12	10	4.4	5.2	30000	34000	0.0015	K9X12X10-TV	K 9x12x10 TN	K9X12X10-TV	FBNP-91210
9	12	13	5.72	7.2	30000	34000	0.0021	K9X12X13-TV	K 9x12x13 TN	K9X12X13-TV	FBNP-91213
10	13	10	4.57	5.7	28000	32000	0.0016	K10X13X10-TV	K 10x13x10 TN	K10X13X10-TV	FBN-101310
10	13	13	5.94	8	28000	32000	0.0023	K10X13X13-TV	K 10x13x13 TN	K10X13X13-TV	FBN-101313
10	13	16	6.82	9.5	28000	32000	0.0029	K10X13X16-TV	K 10x13x16 TN	K10X13X16-TV	-
10	14	10	5.61	6.1	28000	32000	0.0025	K10X14X10-TV	K 10x14x10 TN	K10X14X10-TV	FWF-101410
10	14	13	5.83	6.3	28000	32000	0.0046	K10X14X13-TV	K 10x14x13 TN	K10X14X13-TV	FWF-101413
10	16	12	7.65	7.2	28000	32000	0.0055	K10X16X12-TV	K 10x16x12 TN	K10X16X12-TV	FWF-101612
12	15	10	4.73	6.2	26000	30000	0.0019	K12X15X10-TV	K 12x15x10 TN	K12X15X10-TV	FBN-121510
12	15	13	6.16	8.65	26000	30000	0.0023	K12X15X13-TV	K 12x15x13 TN	K12X15X13-TV	FBN-121513
12	16	13	7.65	9.5	26000	30000	0.0036	K12X16X13-TV	K 12x16x13 TN	K12X16X13-TV	FWF-121613
12	17	13	9.13	10.4	26000	30000	0.0049	K12X17X13-TV	K 12x17x13 TN	K12X17X13-TV	FWF-121713
12	18	12	9.52	10	26000	30000	0.006	K12X18X12-TV	K 12x18x12 TN	K12X18X12-TV	FWF-121812
14	18	10	6.93	8.65	24000	28000	0.004	K14X18X10	K 14x18x10	K14X18X10	FWF-141810
14	18	13	7.92	10.2	24000	28000	0.0065	K14X18X13	K 14x18x13	K14X18X13	FWF-141813
14	18	15	9.13	12.5	24000	28000	0.005	K14X18X15-TV	K 14x18x15 TN	K14X18X15-TV	-
14	18	17	10.5	14.6	24000	28000	0.008	K14X18X17	K 14x18x17	K14X18X17	FWF-141817
14	20	12	9.9	10.6	24000	28000	0.0085	K14X20X12	K 14x20x12	K14X20X12	FWF-142012
15	18	17	7.65	12.2	24000	28000	0.0046	K15X18X17-TV	K 15x18x17 TN	K15X18X17-TV	-
15	19	10	7.21	9.3	24000	28000	0.005	K15X19X10	K 15x19x10	K15X19X10	FWF-151910
15	19	13	8.25	11.2	24000	28000	0.007	K15X19X13	K 15x19x13	K15X19X13	FWF-151913
15	19	17	10.8	15.6	24000	28000	0.0095	K15X19X17	K 15x19x17	K15X19X17	FWF-151917
15	20	13	9.52	11.6	24000	26000	0.007	K15X20X13	K 15x20x13	K15X20X13	FWF-152013
15	21	15	13.8	16.3	24000	26000	0.011	K15X21X15	K 15x21x15	K15X21X15	FWF-152115
15	21	21	18.7	24.5	24000	26000	0.017	K15X21X21	K 15x21x21	K15X21X21	FWF-152121A
16	20	10	7.48	10	24000	26000	0.0055	K16X20X10	K 16x20x10	K16X20X10	FWF-162010
16	20	13	8.58	12	24000	26000	0.0075	K16X20X13	K 16x20x13	K16X20X13	FWF-162013
16	20	17	11.2	17	24000	26000	0.01	K16X20X17	K 16x20x17	K16X20X17	FWF-162017
16	22	12	11	12.5	22000	26000	0.01	K16X22X12	K 16x22x12	K16X22X12	FWF-162212
16	22	16	14.2	17.6	22000	26000	0.012	K16X22X16	K 16x22x16	K16X22X16	-
16	22	20	17.6	22.8	22000	26000	0.017	K16X22X20	K 16x22x20	K16X22X20	FWF-162220
16	24	20	20.5	23.6	22000	24000	0.022	K16X24X20	K 16x24x20	K16X24X20	FWF-162420
17	21	10	7.81	10.8	22000	26000	0.0055	K17X21X10	K 17x21x10	K17X21X10	-

NEEDLE ROLLER BEARINGS
Needle Roller & Cage Assemblies

Table 113
Diameter 17mm - 26mm



Principal Dimensions			Basic Load Ratings		Speed Ratings		Mass	Designations			
d	D	B	Dynamic	Static	Ref. Speed	Limiting Speed		Local	SKF	FAG	NSK
mm			C	C ₀	r/min		kg				
17	21	13	10.1	14.6	22000	26000	0.0065	K17X21X13	K 17x21x13	K17X21X13	FWJ-172113
17	21	17	11.7	18.3	22000	26000	0.0095	K17X21X17	K 17x21x17	K17X21X17	FWF-172117
18	22	10	8.09	11.4	22000	24000	0.006	K18X22X10	K 18x22x10	K18X22X10	FWF-182210
18	22	13	8.8	12.9	22000	24000	0.008	K18X22X13	K 18x22x13	K18X22X13	FWF-182213
18	22	17	11.7	18.3	22000	24000	0.011	K18X22X17	K 18x22x17	K18X22X17	FWF-182217
18	24	12	12.1	15	20000	24000	0.012	K18X24X12	K 18x24x12	K18X24X12	FWF-182412
18	24	13	12.5	15.3	20000	24000	0.013	K18X24X13	K 18x24x13	K18X24X13	FWF-182413
18	24	20	19.4	27	20000	24000	0.018	K18X24X20	K 18x24x20	K18X24X20	FWF-182420
18	25	22	22	29	20000	24000	0.023	K18X25X22	K 18x25x22	K18X25X22	FWF-182522
19	23	13	9.13	13.7	20000	24000	0.008	K19X23X13	K 19x23x13	K19X23X13	FWF-192313
19	23	17	12.1	19.3	20000	24000	0.011	K19X23X17	K 19x23x17	K19X23X17	FWF-192317
20	24	10	8.58	12.9	20000	22000	0.0065	K20X24X10	K 20x24x10	K20X24X10	FWF-202410
20	24	13	9.52	14.6	20000	22000	0.009	K20X24X13	K 20x24x13	K20X24X13	FWF-202413
20	24	17	12.5	20.8	20000	22000	0.012	K20X24X17	K 20x24x17	K20X24X17	FWF-202417
20	26	12	12.8	16.3	19000	22000	0.011	K20X26X12	K 20x26x12	K20X26X12	FWF-202612
20	26	13	13.8	18	19000	22000	0.012	K20X26X13	K 20x26x13	K20X26X13	FWF-202613
20	26	17	18.3	26	19000	22000	0.016	K20X26X17	K 20x26x17	K20X26X17	-
20	26	20	20.1	29	19000	22000	0.019	K20X26X20	K 20x26x20	K20X26X20	FWF-202620
20	28	16	19	22.4	18000	20000	0.02	K20X28X16	K 20x28x16	K20X28X16	-
20	28	20	22.9	28.5	18000	20000	0.027	K20X28X20	K 20x28x20	K20X28X20	FWF-202820
20	28	25	29.2	39	18000	20000	0.032	K20X28X25	K 20x28x25	K20X28X25	-
20	30	30	34.1	41.5	17000	20000	0.049	K20X30X30	K 20x30x30	K20X30X30	-
21	25	13	9.68	15.3	19000	22000	0.009	K21X25X13	K 21x25x13	K21X25X13	FWF-212513
22	26	10	8.8	13.7	18000	20000	0.0075	K22X26X10	K 22x26x10	K22X26X10	FWF-222610
22	26	13	10.1	16.3	18000	20000	0.0095	K22X26X13	K 22x26x13	K22X26X13	-
22	26	17	13.2	22.8	18000	20000	0.012	K22X26X17	K 22x26x17	K22X26X17	FWF-222617
22	28	17	18.3	27	17000	20000	0.018	K22X28X17	K 22x28x17	K22X28X17	FWF-222817
22	29	16	19.4	25.5	17000	19000	0.016	K22X29X16	K 22x29x16	K22X29X16	FWF-222916
22	30	15	19	23.6	17000	19000	0.018	K22X30X15-TV	K 22x30x15 TN	K22X30X15-TV	-
22	32	24	31.9	40	16000	18000	0.043	K22X32X24	K 22x32x24	K22X32X24	-
23	35	16	24.2	23.2	15000	17000	0.029	K23X35X16-TV	K 23x35x16 TN	K23X35X16-TV	-
24	28	10	9.35	15	17000	19000	0.0085	K24X28X10	K 24x28x10	K24X28X10	-
24	28	13	10.6	18	17000	19000	0.01	K24X28X13	K 24x28x13	K24X28X13	FWF-242813
24	28	17	14	25.5	17000	19000	0.013	K24X28X17	K 24x28x17	K24X28X17	FWF-242817
24	30	17	18.7	27.5	16000	18000	0.019	K24X30X17	K 24x30x17	K24X30X17	FWF-243017
24	30	31	26.4	43	16000	18000	0.032	-	K 24x30x31 ZW	-	-
25	29	10	9.52	15.6	16000	18000	0.0085	K25X29X10	K 25x29x10	K25X29X10	FWF-252910
25	29	13	10.8	18.6	16000	18000	0.011	K25X29X13	K 25x29x13	K25X29X13	FWF-252913
25	29	17	14.2	26.5	16000	18000	0.014	K25X29X17	K 25x29x17	K25X29X17	FWF-252917
25	30	17	17.9	30.5	16000	18000	0.016	K25X30X17	K 25x30x17	K25X30X17	FWF-253017
25	30	20	20.9	36.5	16000	18000	0.018	K25X30X20	K 25x30x20	K25X30X20	FWF-253020
25	30	26	20.5	36	16000	18000	0.019	-	K 25x30x26 ZW	-	-
25	31	17	18.7	28.5	16000	18000	0.019	K25X31X17	K 25x31x17	K25X31X17	FWF-253117
25	31	21	23.3	38	16000	18000	0.02	K25X31X21	K 25x31x21	K25X31X21	-
25	32	16	19.8	27.5	15000	17000	0.021	K25X32X16	K 25x32x16	K25X32X16	FWF-253216
25	33	20	27.5	38	15000	17000	0.033	K25X33X20	K 25x33x20	K25X33X20	FWJ-253320
25	33	24	31.9	47.5	15000	17000	0.039	K25X33X24	K 25x33x24	K25X33X24	FWJ-253324
25	35	30	44.6	62	15000	17000	0.065	K25X35X30	K 25x35x30	K25X35X30	-
26	30	13	11.2	19.6	16000	18000	0.011	K26X30X13	K 26x30x13	K26X30X13	FWF-263013
26	30	17	14.7	27.5	16000	18000	0.015	K26X30X17	K 26x30x17	K26X30X17	FWF-263017



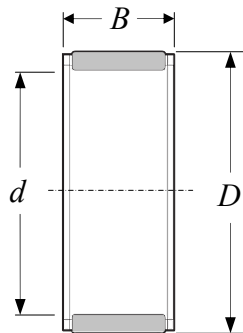
NEEDLE ROLLER BEARINGS
Needle Roller & Cage Assemblies

Table 114
Diameter 26mm - 42mm

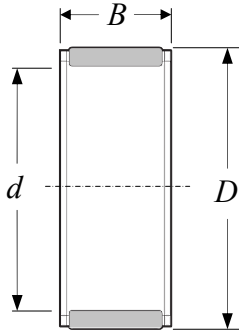
Principal Dimensions			Basic Load Ratings		Speed Ratings		Mass	Designations			
d	D	B	Dynamic	Static	Ref. Speed	Limiting Speed		Local	SKF	FAG	NSK
mm			C	C ₀	r/min		kg				
26	30	22	15.1	29	16000	18000	0.012		K 26x30x22 ZW		
28	33	13	14.7	24.5	14000	16000	0.013	K28X33X13	K 28x33x13	K28X33X13	FWF-283313
28	33	17	19	33.5	14000	16000	0.017	K28X33X17	K 28x33x17	K28X33X17	FWF-283317
28	34	17	20.9	33.5	14000	16000	0.024	K28X34X17	K 28x34x17	K28X34X17	FWF-283417
28	35	16	20.5	30	14000	16000	0.024	K28X35X16	K 28x35x16	K28X35X16	-
28	35	18	22.9	34.5	14000	16000	0.027	K28X35X18	K 28x35x18	K28X35X18	-
28	40	25	42.9	55	13000	15000	0.07	K28X40X25	K 28x40x25	K28X40X25	-
30	34	13	11.9	22	14000	15000	0.014	K30X34X13	K 30x34x13	K30X34X13	-
30	35	13	15.1	25.5	13000	15000	0.014	K30X35X13	K 30x35x13	K30X35X13	FWF-303513
30	35	17	18.7	34	13000	15000	0.019	K30X35X17	K 30x35x17	K30X35X17	FWF-303517A
30	35	27	29.2	60	13000	15000	0.03	K30X35X27	K 30x35x27	K30X35X27	FWF-303527
30	37	16	22	33.5	13000	15000	0.027	K30X37X16	K 30x37x16	K30X37X16	FWF-303716
30	37	18	25.1	39	13000	15000	0.03	K30X37X18	K 30x37x18	K30X37X18	-
30	40	18	30.3	40	12000	14000	0.048	K30X40X18	K 30x40x18	K30X40X18	-
30	40	30	46.8	69.5	12000	14000	0.073	K30X40X30	K 30x40x30	K30X40X30	-
32	37	13	14.7	25.5	13000	14000	0.018	K32X37X13	K 32x37x13	K32X37X13	FWF-323713
32	37	17	19	35.5	13000	14000	0.019	K32X37X17	K 32x37x17	K32X37X17	FWJ-323717
32	37	27	28.6	60	13000	14000	0.03	K32X37X27	K 32x37x27	K32X37X27	FWJ-323727
32	38	20	25.1	45	12000	14000	0.03	K32X38X20	K 32x38x20	K32X38X20	FWF-323820
32	39	16	22.9	35.5	12000	14000	0.037	K32X39X16	K 32x39x16	K32X39X16	FWJ-323916
32	39	18	25.5	41.5	12000	14000	0.031	K32X39X18	K 32x39x18	K32X39X18	-
32	40	25	35.8	58.5	12000	14000	0.049	K32X40X25	K 32x40x25	K32X40X25	-
32	40	42	48.4	83	14000	12000	0.077	-	K 32x40x42 ZWTN	-	-
32	46	32	62.7	83	11000	13000	0.119	K32X46X32	K 32x46x32	K32X46X32	-
35	40	13	15.4	28	12000	13000	0.019	K35X40X13	K 35x40x13	K35X40X13	FWF-354013
35	40	17	19.8	39	12000	13000	0.021	K35X40X17	K 35x40x17	K35X40X17	FWF-354017
35	40	25	28.1	60	12000	13000	0.031	K35X40X25	K 35x40x25	K35X40X25	FBN-354025
35	40	27	23.8	49	12000	13000	0.039	K35X40X27-TV	K 35x40x27 TN	K35X40X27-TV	FWF-354027
35	42	16	23.3	37.5	11000	13000	0.034	K35X42X16	K 35x42x16	K35X42X16	FWF-354216
35	42	18	26.4	44	11000	13000	0.034	K35X42X18	K 35x42x18	K35X42X18	FWF-354218
35	42	20	29.2	50	11000	13000	0.037	K35X42X20	K 35x42x20	K35X42X20	FWJ-354220
35	42	30	37.4	68	11000	13000	0.067	K35X42X30	K 35x42x30	K35X42X30	FWF-354230
35	45	20	35.2	50	11000	12000	0.056	K35X45X20	K 35x45x20	K35X45X20	-
35	45	30	50.1	80	11000	12000	0.08	K35X45X30	K 35x45x30	K35X45X30	-
37	42	17	21.6	43	11000	13000	0.022	K37X42X17	K 37x42x17	K37X42X17	FWJ-374217
38	43	17	19.8	39	11000	12000	0.029	K38X43X17	K 38x43x17	K38X43X17	FWF-384317
38	43	27	30.3	68	11000	12000	0.043	K38X43X27	K 38x43x27	K38X43X27	FWF-384327
38	46	20	34.1	57	10000	12000	0.047	K38X46X20	K 38x46x20	K38X46X20	FWF-384620
38	46	32	52.3	100	10000	12000	0.076	K38X46X32	K 38x46x32	K38X46X32	FWF-384632
39	44	26	26	57	10000	12000	0.045	-	K 39x44x26 ZW	-	-
40	45	13	16.8	32.5	10000	12000	0.022	K40X45X13	K 40x45x13	K40X45X13	FWF-404513
40	45	17	20.5	41.5	10000	12000	0.031	K40X45X17	K 40x45x17	K40X45X17	FWF-404517A
40	45	27	31.4	73.5	10000	12000	0.046	K40X45X27	K 40x45x27	K40X45X27	FWF-404527
40	47	18	28.6	50	10000	11000	0.039	K40X47X18	K 40x47x18	K40X47X18	-
40	47	20	31.4	57	10000	11000	0.042	K40X47X20	K 40x47x20	K40X47X20	-
40	48	20	34.7	58.5	10000	11000	0.049	K40X48X20	K 40x48x20	K40X48X20	FWF-404820
42	47	13	17.2	33.5	10000	11000	0.018	K42X47X13	K 42x47x13	K42X47X13	-
42	47	17	20.9	43	10000	11000	0.032	K42X47X17	K 42x47x17	K42X47X17	FBN-424717
42	47	30	31.9	76.5	10000	11000	0.054	-	K 42x47x30 ZW	-	-
42	50	20	31.9	54	9500	11000	0.053	K42X50X20	K 42x50x20	K42X50X20	FWF-425020

NEEDLE ROLLER BEARINGS
Needle Roller & Cage Assemblies

Table 115
Diameter 43mm - 70mm



Principal Dimensions			Basic Load Ratings		Speed Ratings		Mass	Designations			
d	D	B	Dynamic	Static	Ref. Speed	Limiting Speed		Local	SKF	FAG	NSK
mm			C	C_0	r/min		kg				
43	48	17	20.9	43	9500	11000	0.03	K43X48X17	K 43x48x17	K43X48X17	FWF-434817
43	48	27	31.9	76.5	9500	11000	0.05	K43X48X27	K 43x48x27	K43X48X27	FWF-434827
45	50	17	21.6	46.5	9000	10000	0.034	K45X50X17	K 45x50x17	K45X50X17	FWF-455017
45	50	27	33	81.5	9000	10000	0.051	K45X50X27	K 45x50x27	K45X50X27	FWF-455027
45	52	18	30.3	57	9000	10000	0.042	K45X52X18	K 45x52x18	K45X52X18	-
45	53	20	37.4	68	9000	10000	0.055	K45X53X20	K 45x53x20	K45X53X20	FWF-455320
45	53	21	36.9	67	9000	10000	0.06	K45X53X21	K 45x53x21	K45X53X21	-
45	53	28	49.5	98	9000	10000	0.081	K45X53X28	K 45x53x28	K45X53X28	-
45	59	18	44	53	8500	9500	0.072	K45X59X18-TV	K 45x59x18 TN	K45X59X18-TV	-
45	59	32	69.3	102	8500	9500	0.148	K45X59X32	K 45x59x32	K45X59X32	-
47	52	17	22.4	49	9000	10000	0.035	K47X52X17	K 47x52x17	K47X52X17	FWF-475217
47	52	27	33.6	83	9000	10000	0.051	K47X52X27	K 47x52x27	K47X52X27	FWF-475227
50	55	13.5	17.6	36.5	8500	9500	0.03	K50X55X13,5	K 50x55x13,5	K50X55X13,5	-
50	55	17	21.2	47.5	8500	9500	0.035	K50X55X17	K 50x55x17	K50X55X17	-
50	55	20	25.5	60	8500	9500	0.043	K50X55X20	K 50x55x20	K50X55X20	FWF-505520
50	55	30	37.4	98	8500	9500	0.065	K50X55X30	K 50x55x30	K50X55X30	FWF-505530
50	57	18	31.9	64	8000	9000	0.047	K50X57X18	K 50x57x18	K50X57X18	-
50	58	20	34.1	62	8000	9000	0.075	K50X58X20	K 50x58x20	K50X58X20	FWF-505820
50	58	25	41.8	81.5	8000	9000	0.09	K50X58X25	K 50x58x25	K50X58X25	FWF-505825
52	57	12	17.2	36.5	8000	9000	0.024	K52X57X12	K 52x57x12	K52X57X12	-
55	60	20	27	67	7500	8500	0.04	K55X60X20	K 55x60x20	K55X60X20	FWF-556020
55	60	27	35.8	96.5	7500	8500	0.06	K55X60X27	K 55x60x27	K55X60X27	FWF-556027
55	60	30	39.6	108	7500	8500	0.071	K55X60X30	K 55x60x30	K55X60X30	FWF-556030
55	62	18	34.1	71	7500	8500	0.052	K55X62X18	K 55x62x18	K55X62X18	-
55	63	20	38	75	7500	8500	0.067	K55X63X20	K 55x63x20	K55X63X20	FWF-556320
55	63	25	48.4	102	7500	8500	0.08	K55X63X25	K 55x63x25	K55X63X25	FWF-556325
55	63	32	59.4	129	7500	8500	0.1	K55X63X32	K 55x63x32	K55X63X32	-
58	65	18	33.6	71	7000	8000	0.052	K58X65X18	K 58x65x18	K58X65X18	-
58	65	36	47.3	108	7000	8000	0.13	-	K 58x65x36 ZW	-	-
60	65	20	28.1	72	7000	8000	0.052	K60X65X20	K 60x65x20	K60X65X20	FWF-606520
60	65	30	41.3	116	7000	8000	0.077	K60X65X30	K 60x65x30	K60X65X30	-
60	66	33	44	112	7000	8000	0.1	-	K 60x66x33 ZW	-	-
60	66	40	55	150	7000	8000	0.12	-	K 60x66x40 ZW	-	-
60	68	20	41.8	86.5	6700	7500	0.071	K60X68X20	K 60x68x20	K60X68X20	FWF-606820
60	68	23	47.3	102	6700	7500	0.094	K60X68X23	K 60x68x23	K60X68X23	FWF-606823
60	68	25	51.2	112	6700	7500	0.089	K60X68X25	K 60x68x25	K60X68X25	FWF-606825
60	68	30	42.9	88	6700	7500	0.13	-	K 60x68x30 ZW	-	-
60	75	42	112	196	6300	7500	0.24	K60X75X42	K 60x75x42	K60X75X42	-
62	70	40	62.7	146	6700	7500	0.17	-	K 62x70x40 ZW	-	-
64	70	16	26.4	60	6300	7500	0.053	K64X70X16	K 64x70x16	K64X70X16	-
65	70	20	29.2	76.5	6300	7500	0.056	K65X70X20	K 65x70x20	K65X70X20	FBN-657020
65	70	30	41.8	125	6300	7500	0.083	K65X70X30	K 65x70x30	K65X70X30	FWF-657030
65	73	23	41.8	90	6300	7000	0.11	K65X73X23	K 65x73x23	K65X73X23	-
65	73	30	53.9	125	6300	7000	0.14	K65X73X30	K 65x73x30	K65X73X30	FWF-657330
68	74	20	33.6	83	6000	7000	0.071	K68X74X20	K 68x74x20	K68X74X20	FBN-687420
68	74	30	44.6	118	6000	7000	0.1	K68X74X30	K 68x74x30	K68X74X30	FWF-687430
68	74	35	46.8	125	7000	6000	0.12	-	K 68x74x35 ZW	-	-
70	76	20	34.1	86.5	6000	6700	0.071	K70X76X20	K 70x76x20	K70X76X20	FWF-707620
70	76	30	50.1	140	6000	6700	0.11	K70X76X30	K 70x76x30	K70X76X30	FWF-707630
70	78	30	57.2	137	6000	6700	0.15	K70X78X30	K 70x78x30	K70X78X30	FWF-707830



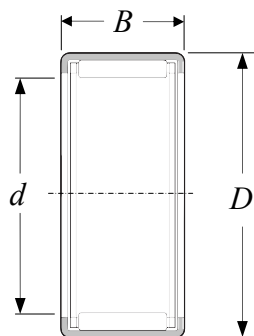
NEEDLE ROLLER BEARINGS
Needle Roller & Cage Assemblies

Table 116
Diameter 72mm - 265mm

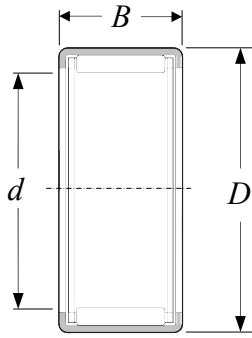
Principal Dimensions			Basic Load Ratings		Speed Ratings		Mass	Designations			
d	D	B	Dynamic	Static	Ref. Speed	Limiting Speed		Local	SKF	FAG	NSK
mm			C	C ₀	r/min		kg				
72	80	20	39.6	85	5600	6300	0.098	K72X80X20	K 72x80x20	K72X80X20	-
73	79	20	35.2	90	5600	6300	0.075	K73X79X20	K 73x79x20	K73X79X20	FBN-737920
75	81	20	35.8	93	5600	6300	0.079	K75X81X20	K 75x81x20	K75X81X20	FBN-758120
75	81	30	50.1	143	5600	6300	0.11	K75X81X30	K 75x81x30	K75X81X30	FWF-758130
75	83	23	47.3	110	5300	6300	0.12	K75X83X23	K 75x83x23	K75X83X23	-
75	83	30	59.4	143	5300	6300	0.15	K75X83X30	K 75x83x30	K75X83X30	FWF-758330
75	83	35	60.5	146	6300	5300	0.182	-	K 75x83x35 ZW	-	-
75	83	40	69.3	176	6300	5300	0.211	-	K 75x83x40 ZW	-	FWF-788540
80	86	20	36.9	98	5300	6000	0.06	K80X86X20	K 80x86x20	K80X86X20	FWF-808620
80	88	30	68.2	176	5000	6000	0.14	K80X88X30	K 80x88x30	K80X88X30	FWF-808830
80	88	40	72.1	193	6000	5000	0.227	-	K 80x88x40 ZW	-	-
80	88	46	84.2	232	6000	5000	0.26	-	K 80x88x46 ZW	-	-
85	92	20	42.9	108	4800	5600	0.1	K85X92X20	K 85x92x20	K85X92X20	-
90	97	20	42.9	114	4500	5300	0.11	K90X97X20	K 90x97x20	K90X97X20	-
90	98	27	58.3	150	4500	5300	0.15	K90X98X27	K 90x98x27	K90X98X27	-
90	98	30	64.4	173	4500	5300	0.17	K90X98X30	K 90x98x30	K90X98X30	FWF-909830
95	103	30	66	180	4300	5000	0.17	K95X103X30	K 95x103x30	K95X103X30	FWF-9510330
95	103	40	79.2	228	5000	4300	0.266	-	K 95x103x40 ZW	-	-
100	107	21	45.7	127	4000	4800	0.12	K100X107X21	K 100x107x21	K100X107X21	-
100	108	27	55	143	4000	4800	0.19	K100X108X27	K 100x108x27	K100X108X27	-
100	108	30	67.1	190	4000	4800	0.18	K100X108X30	K 100x108x30	K100X108X30	FWF-10010830
105	112	21	45.7	129	4000	4500	0.13	K105X112X21	K 105x112x21	K105X112X21	-
110	117	24	53.9	160	3800	4300	0.17	K110X117X24	K 110x117x24	K110X117X24	-
110	118	30	73.7	220	3800	4300	0.22	K110X118X30	K 110x118x30	K110X118X30	FWF-11011830
115	123	27	60.5	170	3600	4000	0.2	K115X123X27	K 115x123x27	K115X123X27	-
120	127	24	56.1	176	3400	4000	0.17	K120X127X24	K 120x127x24	K120X127X24	-
125	133	35	82.5	260	3200	3800	0.28	K125X133X35	K 125x133x35	K125X133X35	FWF-12513335
130	137	24	58.3	186	3200	3600	0.17	K130X137X24	K 130x137x24	K130X137X24	-
135	143	35	88	290	3000	3400	0.3	K135X143X35	K 135x143x35	K135X143X35	-
145	153	26	70.4	224	2800	3200	0.26	K145X153X26	K 145x153x26	K145X153X26	-
150	160	46	140	475	2800	3000	0.57	K150X160X46	K 150x160x46	K150X160X46	-
155	163	26	72.1	236	2600	3000	0.27	K155X163X26	K 155x163x26	K155X163X26	-
160	170	46	145	510	2600	2800	0.55	K160X170X46	K 160x170x46	K160X170X46	-
165	173	26	76.5	265	2400	2800	0.32	K165X173X26	K 165x173x26	K165X173X26	-
175	183	32	95.2	355	2400	2600	0.4	K175X183X32	K 175x183x32	K175X183X32	-
185	195	37	123	425	2200	2400	0.61	K185X195X37	K 185x195x37	K185X195X37	-
195	205	37	125	450	2000	2400	0.62	K195X205X37	K 195x205x37	K195X205X37	-
210	220	42	147	560	1900	2200	0.74	K210X220X42	K 210x220x42	K210X220X42	-
220	230	42	151	585	1800	2000	0.79	K220X230X42	K 220x230x42	K220X230X42	-
240	250	42	157	630	1700	1900	0.85	K240X250X42	K 240x250x42	K240X250X42	-
265	280	50	242	850	1500	1700	1.8	K265X280X50	K 265x280x50	K265X280X50	-

NEEDLE ROLLER BEARINGS
Drawn Cup

Table 117
Diameter 3mm - 30mm



Principal Dimensions			Basic Load Ratings		Speed Ratings		Mass	Designations			
d	D	B	Dynamic	Static	Ref. Speed	Limiting Speed		Local	SKF	FAG	NSK
mm			C	C_0	r/min		kg				
3	6.5	6	1.23	0.88	24000	26000	0.001	HK0306-TV	HK 0306 TN	HK0306-TV	FJP-36
4	8	8	1.76	1.37	22000	26000	0.002	HK0408	HK 0408	HK0408	FJP-48
5	9	9	2.38	2.08	22000	24000	0.002	HK0509	HK 0509	HK0509	FJ-59
6	10	6	1.72	1.29	22000	20000	0.0015	HK0606	HK 0606	HK0606	-
6	10	8	2.01	1.73	20000	22000	0.0021	HK0608	HK 0608	HK0608	-
6	10	9	2.81	2.7	20000	22000	0.0025	HK0609	HK 0609	HK0609	FJ-69
7	11	9	3.03	3.05	20000	22000	0.0026	HK0709	HK 0709	HK0709	FJ-79
8	12	8	2.7	2.75	19000	22000	0.0027	HK0808	HK 0808	HK0808	FJ-88-2
8	12	10	3.69	4.05	19000	22000	0.003	HK0810	HK 0810	HK0810	FJ-810
9	13	8	3.52	3.9	20000	20000	0.003	HK0908	HK 0908	HK0908	-
9	13	10	4.13	4.8	18000	20000	0.004	HK0910	HK 0910	HK0910	FJ-910
9	13	12	5.12	6.4	18000	20000	0.0046	HK0912	HK 0912	HK0912	-
10	14	10	4.29	5.3	18000	20000	0.0041	HK1010	HK 1010	HK1010	FJ-1010
10	14	12	5.39	6.95	18000	20000	0.0048	HK1012	HK 1012	HK1012	-
10	14	15	6.6	9	18000	20000	0.006	HK1015	HK 1015	HK1015	FJ-1015L
12	16	10	4.84	6.4	16000	18000	0.0046	HK1210	HK 1210	HK1210	FJ-1210
12	18	12	6.27	7.35	16000	18000	0.009	HK1212	HK 1212	HK1212	FJH-1212
13	19	12	6.6	8	16000	17000	0.01	HK1312	HK 1312	HK1312	FJ-1312
14	20	12	6.82	8.65	15000	17000	0.011	HK1412	HK 1412	HK1412	FJ-1412
15	21	12	7.65	9.5	15000	16000	0.011	HK1512	HK 1512	HK1512	FJ-1512
15	21	16	10.1	14.6	15000	16000	0.015	HK1516	HK 1516	HK1516	FJ-1516
15	21	22	13	20	15000	16000	0.02	HK1522-ZW	HK 1522	HK1522-ZW	-
16	22	12	7.37	9.8	14000	16000	0.012	HK1612	HK 1612	HK1612	FJ-1612
16	22	16	10.5	15.6	14000	16000	0.016	HK1616	HK 1616	HK1616	FJ-1616
16	22	22	12.8	19.6	14000	16000	0.022	HK1622-ZW	HK 1622	HK1622-ZW	-
17	23	12	7.65	10.6	14000	15000	0.012	HK1712	HK 1712	HK1712	FJ-1712
18	24	12	7.92	11.2	13000	15000	0.013	HK1812	HK 1812	HK1812	FJ-1812
18	24	16	11.2	17.6	13000	15000	0.018	HK1816	HK 1816	HK1816	FJ-1816
20	26	10	6.16	8.5	12000	14000	0.012	HK2010	HK 2010	HK2010	-
20	26	12	8.42	12.5	12000	14000	0.014	HK2012	HK 2012	HK2012	FJ-2012
20	26	16	12.3	20.4	12000	14000	0.019	HK2016	HK 2016	HK2016	FJ-2016
20	26	20	15.1	26.5	12000	14000	0.024	HK2020	HK 2020	HK2020	FJ-2020
20	26	30	20.9	40.5	12000	14000	0.035	HK2030-ZW	HK 2030	HK2030-ZW	-
22	28	10	7.21	10.6	11000	12000	0.013	HK2210	HK 2210	HK2210	-
22	28	12	8.8	13.7	11000	12000	0.015	HK2212	HK 2212	HK2212	FJ-2212
22	28	16	13	22.4	11000	12000	0.021	HK2216	HK 2216	HK2216	FJ-2216
22	28	20	15.7	29	11000	12000	0.026	HK2220	HK 2220	HK2220	FJ-2220
25	32	12	10.5	15.3	9500	11000	0.02	HK2512	HK 2512	HK2512	-
25	32	16	15.1	24	9500	11000	0.027	HK2516	HK 2516	HK2516	FJ-2516
25	32	20	19	32.5	9500	11000	0.033	HK2520	HK 2520	HK2520	FJ-2520
25	32	26	24.2	45	9500	11000	0.044	HK2526	HK 2526	HK2526	FJ-2526
25	32	38	33	65.5	9500	11000	0.064	HK2538-ZW	HK 2538	HK2538-ZW	-
28	35	16	15.7	26.5	9000	9500	0.029	HK2816	HK 2816	HK2816	FJ-2816
28	35	20	20.1	36.5	9000	9500	0.036	HK2820	HK 2820	HK2820	FJ-2820
30	37	12	11.7	18.3	8000	9000	0.023	HK3012	HK 3012	HK3012	-
30	37	16	16.5	29	8000	9000	0.031	HK3016	HK 3016	HK3016	FJ-3016L
30	37	20	20.9	40	8000	9000	0.039	HK3020	HK 3020	HK3020	FJ-3020
30	37	22	23.8	46.5	9000	8000	0.042	HK3022	HK 3022	HK3022	-
30	37	26	27	54	8000	9000	0.051	HK3026	HK 3026	HK3026	FJ-3026
30	37	38	35.8	80	8000	9000	0.076	HK3038-ZW	HK 3038	HK3038-ZW	-



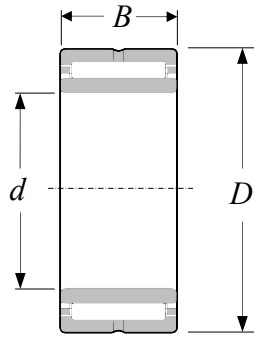
NEEDLE ROLLER BEARINGS
Drawn Cup

Table 118
Diameter 32mm - 60mm

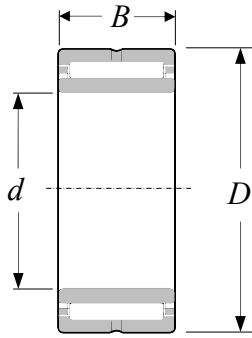
Principal Dimensions			Basic Load Ratings		Speed Ratings		Mass	Designations			
d	D	B	Dynamic	Static	Ref. Speed	Limiting Speed		Local	SKF	FAG	NSK
mm			C	C ₀	r/min		kg				
32	39	20	22	43	8500	7500	0.041	HK3220	HK 3220	HK3220	-
32	39	24	26.4	54	8500	7500	0.049	HK3224	HK 3224	HK3224	-
35	42	12	12.5	21.6	7000	8000	0.027	HK3512	HK 3512	HK3512	FJ-3512
35	42	16	17.9	34	7000	8000	0.036	HK3516	HK 3516	HK3516	FJ-3516
35	42	20	22.9	46.5	7000	8000	0.044	HK3520	HK 3520	HK3520	FJ-3520
40	47	12	13.4	24.5	6300	7000	0.03	HK4012	HK 4012	HK4012	-
40	47	16	19	39	6300	7000	0.039	HK4016	HK 4016	HK4016	FJ-4016
40	47	20	24.2	53	6300	7000	0.054	HK4020	HK 4020	HK4020	FJ-4020
45	52	12	14.2	27.5	5600	6300	0.033	HK4512	HK 4512	HK4512	-
45	52	16	20.5	43	5600	6300	0.046	HK4516	HK 4516	HK4516	FJ-4516
45	52	20	26	60	5600	6300	0.056	HK4520	HK 4520	HK4520	FJ-4520
50	58	20	29.2	63	5000	5600	0.07	HK5020	HK 5020	HK5020	FJ-5020L
50	58	25	36.9	85	5000	5600	0.09	HK5025	HK 5025	HK5025	-
55	63	20	30.3	67	4500	5000	0.074	HK5520	HK 5520	HK5520	FJ-5520
55	63	28	41.8	104	4500	5000	0.11	HK5528	HK 5528	HK5528	-
60	68	12	17.6	32	4300	4800	0.049	HK6012	HK 6012	HK6012	-
60	68	20	31.9	75	4300	4800	0.081	HK6020	HK 6020	HK6020	-
60	68	32	51.2	137	4300	4800	0.14	HK6032	HK 6032	HK6032	-

NEEDLE ROLLER BEARINGS
Solid Needle Roller Bearings

Table 119
Diameter 10mm - 120mm



Principal Dimensions			Basic Load Ratings		Speed Ratings		Mass	Designations			
d	D	B	Dynamic	Static	Ref. Speed	Limiting Speed		Local	SKF	FAG	NSK
mm			C	C ₀	r/min		kg				
10	22	13	8.8	10.4	24000	28000	0.023	NA 4900	NA 4900	NA 4900	NA 4900
12	24	13	9.9	12.2	22000	26000	0.026	NA 4901	NA 4901	NA 4901	NA 4901
12	24	22	16.1	23.2	22000	26000	0.046	NA 6901	NA 6901	NA 6901	NA 6901
15	28	13	11.2	15.3	19000	22000	0.034	NA 4902	NA 4902	NA 4902	NA 4902
15	28	23	17.2	27	19000	22000	0.064	NA 6902	NA 6902	NA 6902	NA 6902
17	30	13	11.4	16.3	18000	20000	0.037	NA 4903	NA 4903	NA 4903	NA 4903
17	30	23	18.7	30.5	18000	20000	0.072	NA 6903	NA 6903	NA 6903	NA 6903
20	37	17	21.6	28	15000	17000	0.075	NA 4904	NA 4904	NA 4904	NA 4904
20	37	30	35.2	53	15000	17000	0.14	NA 6904	NA 6904	NA 6904	NA 6904
22	39	17	23.3	32	14000	15000	0.08	NA 49/22	NA 49/22	NA 49/22	NA 49/22
22	39	30	36.9	57	14000	15000	0.15	NA 69/22	NA 69/22	NA 69/22	NA 69/22
25	42	17	24.2	34.5	13000	15000	0.088	NA 4905	NA 4905	NA 4905	NA 4905
25	42	30	38	62	13000	15000	0.16	NA 6905	NA 6905	NA 6905	NA 6905
28	45	17	25.1	36.5	12000	14000	0.098	NA 49/28	NA 49/28	NA 49/28	NA 49/28
28	45	30	39.6	65.5	12000	14000	0.18	NA 69/28	NA 69/28	NA 69/28	NA 69/28
30	47	17	25.5	39	11000	13000	0.1	NA 4906	NA 4906	NA 4906	NA 4906
30	47	30	42.9	75	11000	13000	0.19	NA 6906	NA 6906	NA 6906	NA 6906
32	52	20	30.8	51	10000	11000	0.16	NA 49/32	NA 49/32	NA 49/32	NA 49/32
32	52	36	47.3	90	10000	11000	0.29	NA 69/32	NA 69/32	NA 69/32	NA 69/32
35	55	20	31.9	54	9500	11000	0.17	NA 4907	NA 4907	NA 4907	NA 4907
35	55	36	48.4	93	9500	11000	0.31	NA 6907	NA 6907	NA 6907	NA 6907
40	62	22	42.9	71	8000	9500	0.23	NA 4908	NA 4908	NA 4908	NA 4908
40	62	40	67.1	125	8000	9500	0.43	NA 6908	NA 6908	NA 6908	NA 6908
45	68	22	45.7	78	7500	8500	0.27	NA 4909	NA 4909	NA 4909	NA 4909
45	68	40	70.4	137	7500	8500	0.5	NA 6909	NA 6909	NA 6909	NA 6909
50	72	22	47.3	85	7000	8000	0.27	NA 4910	NA 4910	NA 4910	NA 4910
50	72	40	73.7	150	7000	8000	0.52	NA 6910	NA 6910	NA 6910	NA 6910
55	80	25	57.2	106	6300	7000	0.39	NA 4911	NA 4911	NA 4911	NA 4911
55	80	45	89.7	190	6300	7000	0.78	NA 6911	NA 6911	NA 6911	NA 6911
60	85	25	60.5	114	6000	6700	0.43	NA 4912	NA 4912	NA 4912	NA 4912
60	85	45	93.5	204	6000	6700	0.81	NA 6912	NA 6912	NA 6912	NA 6912
65	90	25	61.6	120	5600	6300	0.46	NA 4913	NA 4913	NA 4913	NA 4913
65	90	45	95.2	212	5600	6300	0.83	NA 6913	NA 6913	NA 6913	NA 6913
70	100	30	84.2	163	5000	5600	0.73	NA 4914	NA 4914	NA 4914	NA 4914
70	100	54	128	285	5000	5600	1.35	NA 6914	NA 6914	NA 6914	NA 6914
75	105	30	84.2	170	4800	5300	0.78	NA 4915	NA 4915	NA 4915	NA 4915
75	105	54	130	290	4800	5300	1.45	NA 6915	NA 6915	NA 6915	NA 6915
80	110	30	88	183	4500	5000	0.88	NA 4916	NA 4916	NA 4916	NA 4916
80	110	54	134	315	4500	5000	1.5	NA 6916	NA 6916	NA 6916	NA 6916
85	120	35	108	250	4000	4500	1.25	NA 4917	NA 4917	NA 4917	NA 4917
85	120	63	165	425	4000	4500	2.2	NA 6917	NA 6917	NA 6917	NA 6917
90	125	35	112	265	3800	4300	1.3	NA 4918	NA 4918	NA 4918	NA 4918
90	125	63	172	450	3800	4300	2.3	NA 6918	NA 6918	NA 6918	NA 6918
95	130	35	114	270	3600	4000	1.35	NA 4919	NA 4919	NA 4919	NA 4919
95	130	63	172	465	3600	4000	2.5	NA 6919	NA 6919	NA 6919	NA 6919
100	140	40	125	280	3400	4000	1.9	NA 4920	NA 4920	NA 4920	NA 4920
110	140	30	93.5	232	3400	3800	1.1	NA 4822	NA 4822	NA 4822	NA 4822
110	150	40	130	300	3200	3600	2.05	NA 4922	NA 4922	NA 4922	NA 4922
120	150	30	99	255	3200	3600	1.15	NA 4824	NA 4824	NA 4824	NA 4824
120	165	45	176	405	3000	3400	2.85	NA 4924	NA 4924	NA 4924	NA 4924



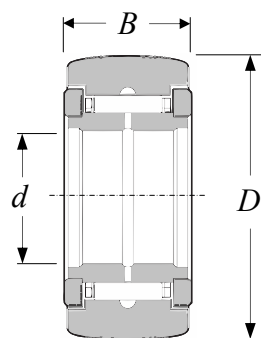
NEEDLE ROLLER BEARINGS
Solid Needle Roller Bearings

Table 120
Diameter 130mm - 380mm

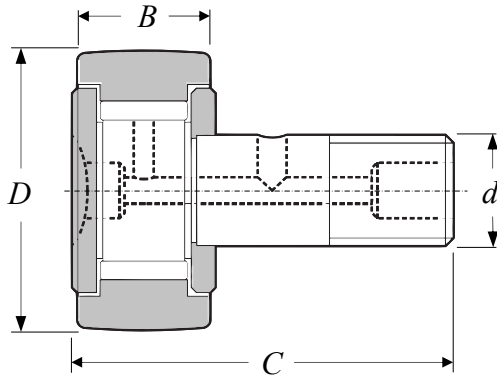
Principal Dimensions			Basic Load Ratings		Speed Ratings		Mass	Designations			
d	D	B	Dynamic	Static	Ref. Speed	Limiting Speed		Local	SKF	FAG	NSK
mm			C	C ₀	r/min						
130	165	35	119	325	2800	3200	1.8	NA 4826	NA 4826	NA 4826	NA 4826
130	180	50	198	480	2600	3000	3.9	NA 4926	NA 4926	NA 4926	NA 4926
140	175	35	121	345	2600	3000	1.9	NA 4828	NA 4828	NA 4828	NA 4828
140	190	50	205	510	2400	2800	4.15	NA 4928	NA 4928	NA 4928	NA 4928
150	190	40	147	415	2400	2800	2.7	NA 4830	NA 4830	NA 4830	NA 4830
160	200	40	157	450	2200	2600	2.9	NA 4832	NA 4832	NA 4832	NA 4832
170	215	45	179	520	2200	2400	3.95	NA 4834	NA 4834	NA 4834	NA 4834
180	225	45	190	570	2000	2400	4.2	NA 4836	NA 4836	NA 4836	NA 4836
190	240	50	220	710	1900	2200	5.6	NA 4838	NA 4838	NA 4838	NA 4838
200	250	50	224	735	1800	2000	5.85	NA 4840	NA 4840	NA 4840	NA 4840
220	270	50	238	815	1700	1900	6.4	NA 4844	NA 4844	NA 4844	NA 4844
240	300	60	347	1120	1500	1700	10	NA 4848	NA 4848	NA 4848	NA 4848
260	320	60	358	1200	1400	1500	10.5	NA 4852	NA 4852	NA 4852	NA 4852
280	350	69	429	1320	1300	1400	15.5	NA 4856	NA 4856	NA 4856	NA 4856
300	380	80	594	1800	1100	1300	22	NA 4860	NA 4860	NA 4860	NA 4860
320	400	80	605	1900	1100	1200	23	NA 4864	NA 4864	NA 4864	NA 4864
340	420	80	616	1960	1000	1200	24	NA 4868	NA 4868	NA 4868	NA 4868
360	440	80	627	2040	950	1100	25.5	NA 4872	NA 4872	NA 4872	NA 4872
380	480	100	968	3000	900	1000	42.5	NA 4876	NA 4876	NA 4876	NA 4876

NEEDLE ROLLER BEARINGS Cam Rollers

Table 121
Diameter 16mm - 310mm



Principal Dimensions			Basic Load Ratings		Limiting Speed	Mass	Designations			
D	d	B	C	C ₀			Local	SKF	FAG	NSK
mm	mm	mm	kN	kN	r/min	kg				
16	5	11	3,14	3,2	6000	0,014	NATR 5	NATR 5	NATR 5	FY CJ-5
16	5	11	4,73	6,55	4300	0,015	NATV 5	NATV 5	NATV 5	FYCR-5
19	6	11	3,47	3,8	5600	0,02	NATR 6	NATR 6	NATR 6	FY CJ-6
19	6	11	5,28	8	4000	0,021	NATV 6	NATV 6	NATV 6	FYCR-6
24	8	14	5,28	6,1	5000	0,041	NATR 8	NATR 8	NATR 8	FY CJ-8
24	8	14	7,48	11,4	3600	0,042	NATV 8	NATV 8	NATV 8	FYCR-8
30	10	14	6,44	8	4800	0,064	NATR 10	NATR 10	NATR 10	FY CJ-10
30	10	14	8,97	14,6	3200	0,065	NATV 10	NATV 10	NATV 10	FYCR-10
32	12	14	6,6	8,5	4500	0,071	NATR 12	NATR 12	NATR 12	FY CJ-12
32	12	14	9,35	15,3	3000	0,072	NATV 12	NATV 12	NATV 12	FYCR-12
35	15	18	9,52	13,7	4000	0,10	NATR 15	NATR 15	NATR 15	FY CJ-15
35	15	18	12,3	23,2	2600	0,11	NATV 15	NATV 15	NATV 15	FYCR-15
35	15	18	16,8	17,6	5000	0,10	NUTR 15	NUTR 15 A	NUTR 15	-
42	15	18	20,1	23,2	5000	0,16	NATR 1542	NATR 1542 A	NATR 1542	-
40	17	20	10,5	14,6	3400	0,14	NATR 17	NATR 17	NATR 17	FY CJ-17
40	17	20	14,2	26,5	2200	0,15	NATV 17	NATV 17	NATV 17	FYCR-17
40	17	20	19	22	4500	0,15	NUTR 17	NUTR 17 A	NUTR 17	-
47	17	20	22	27	4500	0,22	NATR 1747	NATR 1747 A	NATR 1747	-
47	20	24	14,7	24,5	3000	0,25	NATR 20	NATR 20	NATR 20	FY CJ-20
47	20	24	19,4	41,5	1900	0,25	NATV 20	NATV 20	NATV 20	FYCR-20
47	20	24	28,6	33,5	3800	0,25	NUTR 20	NUTR 20 A	NUTR 20	-
52	20	24	31,9	39	3800	0,32	NATR 2052	NATR 2052 A	NATR 2052	-
52	25	24	14,7	25,5	2400	0,28	NATR 25	NATR 25	NATR 25	FY CJ-25
52	25	24	19,8	44	1600	0,29	NATV 25	NATV 25	NATV 25	FYCR-25
52	25	24	29,7	36	3200	0,28	NUTR 25	NUTR 25 A	NUTR 25	-
62	25	24	35,8	48	3200	0,45	NATR 2562	NATR 2562 A	NATR 2562	-
62	30	28	22,9	37,5	1800	0,47	NATR 30	NATR 30	NATR 30	FY CJ-30
62	30	28	29,2	62	1400	0,48	NATV 30	NATV 30	NATV 30	FYCR-30
62	30	28	41,3	47,5	2600	0,47	NUTR 30	NUTR 30 A	NUTR 30	-
72	30	28	48,4	61	2600	0,70	NATR 3072	NATR 3072 A	NATR 3072	-
72	35	28	45,7	57	2000	0,63	NATR 35	NATR 35 A	NATR 35	-
80	35	28	51,2	68	2000	0,84	NATR 3580	NATR 3580 A	NATR 3580	-
80	40	30	57,2	72	1800	0,82	NATR 40	NATR 40 A	NATR 40	-
90	40	30	68,2	91,5	1800	1,13	NATR 4090	NATR 4090 A	NATR 4090	-
85	45	30	58,3	75	1700	0,88	NATR 45	NATR 45 A	NATR 45	-
130	50	63	179	232	750	5,20	NNTR 50x130x65.2ZL	NNTR 50x130x65.2ZL	NNTR 50x130x65.2ZL	-
90	50	30	58,3	78	1600	0,95	NATR 50	NATR 50 A	NATR 50	-
140	55	68	209	275	700	6,40	NNTR 55x140x70.2ZL	NNTR 55x140x70.2ZL	NNTR 55x140x70.2ZL	-
150	60	73	238	320	670	7,80	NNTR 60x150x75.2ZL	NNTR 60x150x75.2ZL	NNTR 60x150x75.2ZL	-
160	65	73	255	345	600	8,80	NNTR 65x160x75.2ZL	NNTR 65x160x75.2ZL	NNTR 65x160x75.2ZL	-
180	70	83	330	455	560	13,0	NNTR 70x180x85.2ZL	NNTR 70x180x85.2ZL	NNTR 70x180x85.2ZL	-
200	80	88	391	540	500	17,0	NNTR 80x200x90.2ZL	NNTR 80x200x90.2ZL	NNTR 80x200x90.2ZL	-
220	90	98	468	670	430	22,5	NNTR 90x220x100.2ZL	NNTR 90x220x100.2ZL	NNTR 90x220x100.2ZL	-
240	100	103	528	780	380	28,0	NNTR 100x240x105.2ZL	NNTR 100x240x105.2ZL	NNTR 100x240x105.2ZL	-
260	110	113	627	930	360	35,5	NNTR 110x260x115.2ZL	NNTR 110x260x115.2ZL	NNTR 110x260x115.2ZL	-
290	120	133	825	1270	320	53,0	NNTR 120x290x135.2ZL	NNTR 120x290x135.2ZL	NNTR 120x290x135.2ZL	-
310	130	144	952	1460	300	65	NNTR 130x310x146.2ZL	NNTR 130x310x146.2ZL	NNTR 130x310x146.2ZL	-



NEEDLE ROLLER BEARINGS
Cam Rollers

Table 122
Diameter 16mm - 90mm

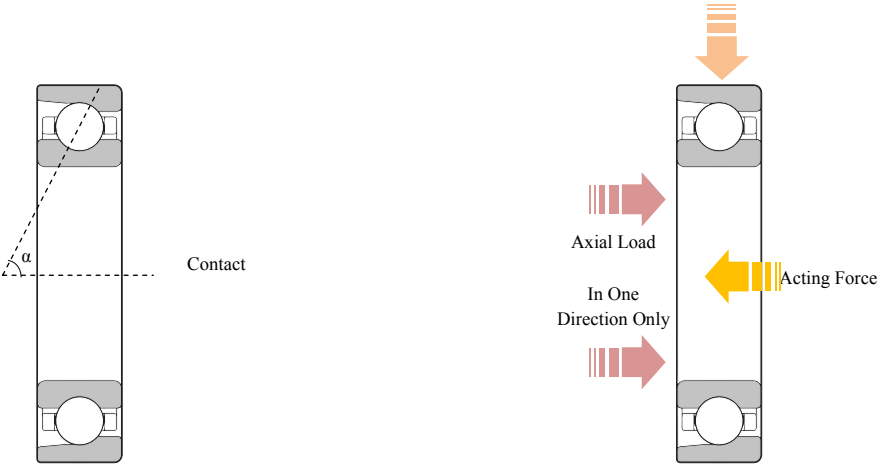
Principal Dimensions				Basic Load Ratings		Limiting Speed	Mass	Designations			
D	d	B	C	Dynamic	Static			Local	SKF	FAG	NSK
mm				C	C_0	r/min	kg				
16	6	28	11	3.14	3.2	6000	0.018	KR 16	KR 16	KR 16	FCJ-16
16	6	28	11	3.14	3.2	6000	0.018	KR 16 PP	KR 16 PPA	KR 16 PP	-
19	8	32	11	3.47	3.8	5600	0.029	KR 19	KR 19	KR 19	FCJ-19
19	8	32	11	3.47	3.8	5600	0.029	KR 19 PP	KR 19 PPA	KR 19 PP	-
22	10	36	12	4.4	5	5300	0.045	KR 22	KR 22 B	KR 22	FCJ-22
22	10	36	12	4.4	5	5300	0.043	KR 22 PP	KR 22 PPA	KR 22 PP	-
26	10	36	12	4.84	6	5300	0.059	KR 26	KR 26 B	KR 26	FCJ-26
26	10	36	12	4.84	6	5300	0.057	KR 26 PP	KR 26 PPA	KR 26 PP	-
30	12	40	14	6.44	8	4800	0.092	KR 30	KR 30 B	KR 30	FCJ-30
30	12	40	14	6.44	8	4800	0.088	KR 30 PP	KR 30 PPA	KR 30 PP	-
32	12	40	14	6.71	8.5	4800	0.1	KR 32	KR 32 B	KR 32	FCJ-32
32	12	40	14	6.71	8.5	4800	0.098	KR 32 PP	KR 32 PPA	KR 32 PP	-
35	16	52	18	9.52	13.7	4000	0.17	KR 35	KR 35 B	KR 35	FCJ-35
35	16	52	18	9.52	13.7	4000	0.16	KR 35 PP	KR 35 PPA	KR 35 PP	-
40	18	58	20	10.5	14.6	3400	0.25	KR 40	KR 40 B	KR 40	FCJ-40
40	18	58	20	10.5	14.6	3400	0.25	KR 40 PP	KR 40 PPA	KR 40 PP	-
47	20	66	24	14.7	24.5	3000	0.38	KR 47 PP	KR 47 PPA	KR 47 PP	FCJ-47
52	20	66	24	15.7	27	3000	0.45	KR 52 PP	KR 52 PPA	KR 52 PP	FCJ-52
62	24	80	29	24.6	44	2400	0.77	KR 62 PP	KR 62 PPA	KR 62 PP	FCJ-62
72	24	80	29	26	48	2400	1.05	KR 72 PP	KR 72 PPA	KR 72 PP	FCJ-72
80	30	100	35	36.9	72	1800	1.61	KR 80 PP	KR 80 PPA	KR 80 PP	FCJ-80
90	30	100	35	38	76.5	1800	1.98	KR 90 PP	KR 90 PPA	KR 90 PP	FCJ-90
16	6	28	11	4.73	6.55	4300	0.019	KRV 16 PP	KRV 16 PPA	KRV 16 PP	FCR-16
19	8	32	11	5.28	8	4000	0.031	KRV 19 PP	KRV 19 PPA	KRV 19 PP	FCR-19
22	10	36	12	6.05	9.15	3600	0.045	KRV 22 PP	KRV 22 PPA	KRV 22 PP	FCR-22
26	10	36	12	6.82	11	3600	0.059	KRV 26 PP	KRV 26 PPA	KRV 26 PP	FCR-26
30	12	40	14	8.97	14.6	3200	0.091	KRV 30 PP	KRV 30 PPA	KRV 30 PP	FCR-30
32	12	40	14	9.35	15.3	3200	0.1	KRV 32 PP	KRV 32 PPA	KRV 32 PP	FCR-32
35	16	52	18	12.3	23.2	2600	0.17	KRV 35 PP	KRV 35 PPA	KRV 35 PP	FCR-35
40	18	58	20	14.2	26.5	2200	0.25	KRV 40 PP	KRV 40 PPA	KRV 40 PP	FCR-40
47	20	66	24	19.4	41.5	1900	0.39	KRV 47 PP	KRV 47 PPA	KRV 47 PP	FCR-47
52	20	66	24	20.9	46.5	1900	0.46	KRV 52 PP	KRV 52 PPA	KRV 52 PP	FCR-52
62	24	80	29	31.4	72	1700	0.79	KRV 62 PP	KRV 62 PPA	KRV 62 PP	FCR-62
72	24	80	29	33	80	1700	1.03	KRV 72 PP	KRV 72 PPA	KRV 72 PP	FCR-72
80	30	100	35	45.7	114	1400	1.64	KRV 80 PP	KRV 80 PPA	KRV 80 PP	FCR-80
90	30	100	35	47.3	122	1400	2	KRV 90 PP	KRV 90 PPA	KRV 90 PP	FCR-90

HIGH PRECISION BEARINGS

High precision bearings are sometimes called super precision bearings. They are specifically designed for rigid, high speed, and high precision machine tools spindles, where high speed and high accuracy are critically necessary.

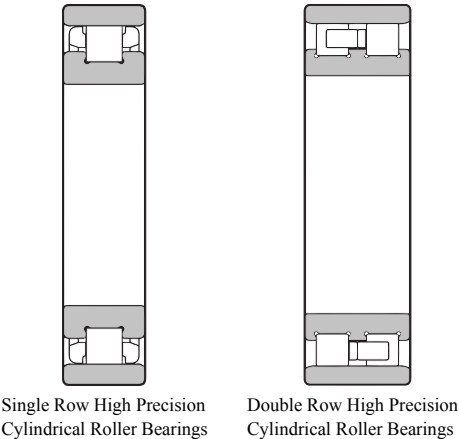
High Precision Angular Contact Ball Bearings

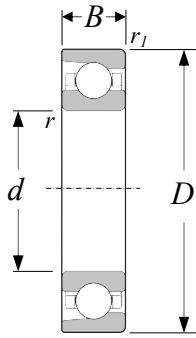
Precision angular contact ball bearings are specially designed for high precision machines. They are available in large numbers of sizes of bores, which are almost virtually made available to every machine tools application where the bearings can be used. It has similar characteristics like a conventional angular contact ball bearings, the inner rings and outer rings are offset in certain angle to the bearing axis, where the loads will be transmitted across this angle through the balls. The design provides a capability to carry axial loads in one direction, in addition to radial loads. An axial force acting in one direction will be produced under a radial load, and that axial force need to be counteracted, thus angular contact ball bearings are often used in a pair or set.



High Precision Cylindrical Roller Bearings

High precision cylindrical roller bearings have similar characteristics and features of its' conventional type. Their cross section is relatively low, high radial load carrying capacity, as well as high speed applications. They are designed specifically to provide high degree of stiffness, and carry heavy radial loads in high speed spindle applications, where running accuracy of spindle bearing is necessary. High precision cylindrical roller bearings are also available as single row and double row types.





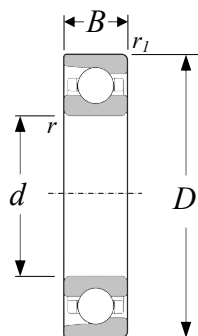
HIGH PRECISION BEARINGS
Angular Contact Ball Bearings

Table 123
Bore Diameter 8mm – 15mm

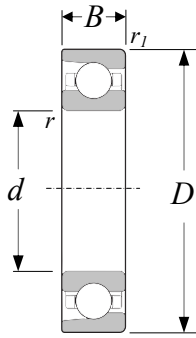
Principal Dimensions			Basic Load Ratings		Max. Speed		Mass	Designations				
d	D	B	Dynamic	Static	Grease	Oil-Air		Local		SKF	FAG	NSK
mm			C	C ₀	r/min		kg					
8	22	7	2.91	1.12	70000	110000	0.01	708 A5P4	708 ACD/HCP4A	708 E.P4S	708 A5P4	
8	22	7	2.91	1.12	67000	100000	0.011	708 A5P4	708 ACD/P4A	708 E.P4S	708 A5P4	
8	22	7	2.96	1.16	75000	120000	0.01	708 CP4	708 CD/HCP4A	708 C.P4S	708 CP4	
8	22	7	2.96	1.16	70000	110000	0.011	708 CP4	708 CD/P4A	708 C.P4S	708 CP4	
9	24	7	3.12	1.29	70000	110000	0.012	709 A5P4	709 ACD/HCP4A	709 E.P4S	709 A5P4	
9	24	7	3.12	1.29	63000	95000	0.014	709 A5P4	709 ACD/P4A	709 E.P4S	709 A5P4	
9	24	7	3.25	1.34	75000	120000	0.012	709 CP4	709 CD/HCP4A	709 C.P4S	709 CP4	
9	24	7	3.25	1.34	70000	110000	0.014	709 CP4	709 CD/P4A	709 C.P4S	709 CP4	
10	19	5	1.78	0.93	85000	130000	0.005	71800 A5P4	71800 ACD/HCP4A	71800 E.P4S	71800 A5P4	
10	19	5	1.78	0.93	70000	110000	0.005	71800 A5P4	71800 ACD/P4A	71800 E.P4S	71800 A5P4	
10	19	5	1.9	0.98	95000	150000	0.005	71800 CP4	71800 CD/HCP4A	71800 C.P4S	71800 CP4	
10	19	5	1.9	0.98	80000	120000	0.005	71800 CP4	71800 CD/P4A	71800 C.P4S	71800 CP4	
10	22	6	2.42	1.06	70000	110000	0.008	71900 A5P4	71900 ACD/HCP4A	71900 E.P4S	71900 A5P4	
10	22	6	2.42	1.06	63000	95000	0.009	71900 A5P4	71900 ACD/P4A	71900 E.P4S	71900 A5P4	
10	22	6	2.51	1.1	80000	120000	0.008	71900 CP4	71900 CD/HCP4A	71900 C.P4S	71900 CP4	
10	22	6	2.51	1.1	70000	110000	0.009	71900 CP4	71900 CD/P4A	71900 C.P4S	71900 CP4	
10	26	8	3.97	1.6	67000	100000	0.016	7000 A5P4	7000 ACD/HCP4A	7000 E.P4S	7000 A5P4	
10	26	8	3.97	1.6	56000	85000	0.018	7000 A5P4	7000 ACD/P4A	7000 E.P4S	7000 A5P4	
10	26	8	4.1	1.66	70000	110000	0.016	7000 CP4	7000 CD/HCP4A	7000 C.P4S	7000 CP4	
10	26	8	4.1	1.66	67000	100000	0.018	7000 CP4	7000 CD/P4A	7000 C.P4S	7000 CP4	
10	30	9	5.2	2.45	63000	95000	0.025	7200 A5P4	7200 ACD/HCP4A	7200 E.P4S	7200 A5P4	
10	30	9	5.2	2.45	53000	80000	0.029	7200 A5P4	7200 ACD/P4A	7200 E.P4S	7200 A5P4	
10	30	9	5.4	2.6	70000	100000	0.025	7200 CP4	7200 CD/HCP4A	7200 C.P4S	7200 CP4	
10	30	9	5.4	2.6	60000	90000	0.029	7200 CP4	7200 CD/P4A	7200 C.P4S	7200 CP4	
12	21	5	1.95	1.12	75000	110000	0.006	71801 A5P4	71801 ACD/HCP4A	71801 E.P4S	71801 A5P4	
12	21	5	1.95	1.12	63000	95000	0.006	71801 A5P4	71801 ACD/P4A	71801 E.P4S	71801 A5P4	
12	21	5	2.08	1.18	85000	130000	0.006	71801 CP4	71801 CD/HCP4A	71801 C.P4S	71801 CP4	
12	21	5	2.08	1.18	70000	110000	0.006	71801 CP4	71801 CD/P4A	71801 C.P4S	71801 CP4	
12	24	6	2.55	1.18	67000	100000	0.009	71901 A5P4	71901 ACD/HCP4A	71901 E.P4S	71901 A5P4	
12	24	6	2.55	1.18	56000	85000	0.01	71901 A5P4	71901 ACD/P4A	71901 E.P4S	71901 A5P4	
12	24	6	2.65	1.25	75000	110000	0.009	71901 CP4	71901 CD/HCP4A	71901 C.P4S	71901 CP4	
12	24	6	2.65	1.25	63000	95000	0.01	71901 CP4	71901 CD/P4A	71901 C.P4S	71901 CP4	
12	28	8	4.36	1.83	63000	95000	0.017	7001 A5P4	7001 ACD/HCP4A	7001 E.P4S	7001 A5P4	
12	28	8	4.36	1.83	53000	80000	0.02	7001 A5P4	7001 ACD/P4A	7001 E.P4S	7001 A5P4	
12	28	8	4.49	1.9	67000	100000	0.017	7001 CP4	7001 CD/HCP4A	7001 C.P4S	7001 CP4	
12	28	8	4.49	1.9	60000	90000	0.02	7001 CP4	7001 CD/P4A	7001 C.P4S	7001 CP4	
12	32	10	5.72	2.75	56000	85000	0.032	7201 A5P4	7201 ACD/HCP4A	7201 E.P4S	7201 A5P4	
12	32	10	5.72	2.75	48000	70000	0.036	7201 A5P4	7201 ACD/P4A	7201 E.P4S	7201 A5P4	
12	32	10	5.85	2.9	67000	95000	0.032	7201 CP4	7201 CD/HCP4A	7201 C.P4S	7201 CP4	
12	32	10	5.85	2.9	53000	80000	0.036	7201 CP4	7201 CD/P4A	7201 C.P4S	7201 CP4	
15	24	5	2.16	1.4	63000	100000	0.006	71802 A5P4	71802 ACD/HCP4A	71802 E.P4S	71802 A5P4	
15	24	5	2.16	1.4	53000	80000	0.007	71802 A5P4	71802 ACD/P4A	71802 E.P4S	71802 A5P4	
15	24	5	2.29	1.5	70000	110000	0.006	71802 CP4	71802 CD/HCP4A	71802 C.P4S	71802 CP4	
15	24	5	2.29	1.5	60000	90000	0.007	71802 CP4	71802 CD/P4A	71802 C.P4S	71802 CP4	
15	28	7	3.77	1.8	60000	90000	0.013	71902 A5P4	71902 ACD/HCP4A	71902 E.P4S	71902 A5P4	
15	28	7	3.77	1.8	50000	75000	0.015	71902 A5P4	71902 ACD/P4A	71902 E.P4S	71902 A5P4	
15	28	7	3.97	1.9	70000	100000	0.013	71902 CP4	71902 CD/HCP4A	71902 C.P4S	71902 CP4	
15	28	7	3.97	1.9	56000	85000	0.015	71902 CP4	71902 CD/P4A	71902 C.P4S	71902 CP4	
15	32	9	4.94	2.32	53000	80000	0.025	7002 A5P4	7002 ACD/HCP4A	7002 E.P4S	7002 A5P4	
15	32	9	4.94	2.32	45000	67000	0.028	7002 A5P4	7002 ACD/P4A	7002 E.P4S	7002 A5P4	

HIGH PRECISION BEARINGS
Angular Contact Ball Bearings

Table 124
Bore Diameter 15mm – 25mm



Principal Dimensions			Basic Load Ratings		Max. Speed		Mass	Designations			
d	D	B	C	C ₀	Grease	Oil-Air		Local	SKF	FAG	NSK
mm			kN		r/min						
15	32	9	5.2	2.45	60000	90000	0.025	7002 CP4	7002 CD/HCP4A	7002 C.P4S	7002 CP4
15	32	9	5.2	2.45	50000	75000	0.028	7002 CP4	7002 CD/P4A	7002 C.P4S	7002 CP4
15	35	11	7.28	3.6	50000	75000	0.037	7202 A5P4	7202 ACD/HCP4A	7202 E.P4S	7202 A5P4
15	35	11	7.28	3.6	43000	63000	0.043	7202 A5P4	7202 ACD/P4A	7202 E.P4S	7202 A5P4
15	35	11	7.41	3.8	60000	85000	0.037	7202 CP4	7202 CD/HCP4A	7202 C.P4S	7202 CP4
15	35	11	7.41	3.8	48000	70000	0.043	7202 CP4	7202 CD/P4A	7202 C.P4S	7202 CP4
17	26	5	2.21	1.53	60000	90000	0.009	71803 A5P4	71803 ACD/HCP4	71803 E.P4S	71803 A5P4
17	26	5	2.21	1.53	48000	75000	0.01	71803 A5P4	71803 ACD/P4	71803 E.P4S	71803 A5P4
17	26	5	2.34	1.6	63000	100000	0.009	71803 CP4	71803 CD/HCP4A	71803 C.P4S	71803 CP4
17	26	5	2.34	1.6	53000	85000	0.01	71803 CP4	71803 CD/P4A	71803 C.P4S	71803 CP4
17	30	7	3.97	2	53000	80000	0.015	71903 A5P4	71903 ACD/HCP4A	71903 E.P4S	71903 A5P4
17	30	7	3.97	2	45000	67000	0.017	71903 A5P4	71903 ACD/P4A	71903 E.P4S	71903 A5P4
17	30	7	4.16	2.08	63000	90000	0.017	71903 CP4	71903 CD/HCP4A	71903 C.P4S	71903 CP4
17	30	7	4.16	2.08	50000	75000	0.017	71903 CP4	71903 CD/P4A	71903 C.P4S	71903 CP4
17	35	10	6.5	3.1	50000	75000	0.032	7003 A5P4	7003 ACD/HCP4A	7003 E.P4S	7003 A5P4
17	35	10	6.5	3.1	40000	60000	0.037	7003 A5P4	7003 ACD/P4A	7003 E.P4S	7003 A5P4
17	35	10	6.76	3.25	53000	80000	0.032	7003 CP4	7003 CD/HCP4A	7003 C.P4S	7003 CP4
17	35	10	6.76	3.25	48000	70000	0.037	7003 CP4	7003 CD/P4A	7003 C.P4S	7003 CP4
17	40	12	8.84	4.55	45000	67000	0.054	7203 A5P4	7203 ACD/HCP4A	7203 E.P4S	7203 A5P4
17	40	12	8.84	4.55	38000	56000	0.062	7203 A5P4	7203 ACD/P4A	7203 E.P4S	7203 A5P4
17	40	12	9.23	4.8	53000	75000	0.054	7203 CP4	7203 CD/HCP4A	7203 C.P4S	7203 CP4
17	40	12	9.23	4.8	43000	63000	0.062	7203 CP4	7203 CD/P4A	7203 C.P4S	7203 CP4
20	32	7	3.64	2.5	48000	75000	0.017	71804 A5P4	71804 ACD/HCP4	71804 E.P4S	71804 A5P4
20	32	7	3.64	2.5	40000	63000	0.018	71804 A5P4	71804 ACD/P4	71804 E.P4S	71804 A5P4
20	32	7	3.9	2.65	53000	80000	0.017	71804 CP4	71804 CD/HCP4A	71804 C.P4S	71804 CP4
20	32	7	3.9	2.65	45000	70000	0.018	71804 CP4	71804 CD/P4A	71804 C.P4S	71804 CP4
20	37	9	5.72	3.05	45000	67000	0.031	71904 A5P4	71904 ACD/HCP4A	71904 E.P4S	71904 A5P4
20	37	9	5.72	3.05	38000	56000	0.035	71904 A5P4	71904 ACD/P4A	71904 E.P4S	71904 A5P4
20	37	9	4.42	2.04	56000	85000	0.032	71904 A5P4	71904 ACE/HCP4A	71904 E.P4S	71904 A5P4
20	37	9	4.42	2.04	48000	75000	0.035	71904 A5P4	71904 ACE/P4A	71904 E.P4S	71904 A5P4
20	37	9	6.05	3.2	53000	75000	0.031	71904 CP4	71904 CD/HCP4A	71904 C.P4S	71904 CP4
20	37	9	6.05	3.2	43000	63000	0.035	71904 CP4	71904 CD/P4A	71904 C.P4S	71904 CP4
20	37	9	4.68	2.12	63000	95000	0.032	71904 CP4	71904 CE/HCP4A	71904 C.P4S	71904 CP4
20	37	9	4.68	2.12	56000	85000	0.035	71904 CP4	71904 CE/P4A	71904 C.P4S	71904 CP4
20	42	12	8.32	4.15	40000	60000	0.058	7004 A5P4	7004 ACD/HCP4A	7004 E.P4S	7004 A5P4
20	42	12	8.32	4.15	34000	50000	0.065	7004 A5P4	7004 ACD/P4A	7004 E.P4S	7004 A5P4
20	42	12	6.76	2.9	50000	80000	0.056	7004 A5P4	7004 ACE/HCP4A	7004 E.P4S	7004 A5P4
20	42	12	6.76	2.9	45000	70000	0.063	7004 A5P4	7004 ACE/P4A	7004 E.P4S	7004 A5P4
20	42	12	8.71	4.3	45000	67000	0.058	7004 CP4	7004 CD/HCP4A	7004 C.P4S	7004 CP4
20	42	12	8.71	4.3	38000	56000	0.065	7004 CP4	7004 CD/P4A	7004 C.P4S	7004 CP4
20	42	12	7.02	3.05	56000	90000	0.056	7004 CP4	7004 CE/HCP4A	7004 C.P4S	7004 CP4
20	42	12	7.02	3.05	50000	80000	0.063	7004 CP4	7004 CE/P4A	7004 C.P4S	7004 CP4
20	47	14	11.4	5.6	38000	56000	0.089	7204 A5P4	7204 ACD/HCP4A	7204 E.P4S	7204 A5P4
20	47	14	11.4	5.6	32000	48000	0.1	7204 A5P4	7204 ACD/P4A	7204 E.P4S	7204 A5P4
20	47	14	11.9	5.85	43000	60000	0.089	7204 CP4	7204 CD/HCP4A	7204 C.P4S	7204 CP4
20	47	14	11.9	5.85	36000	53000	0.1	7204 CP4	7204 CD/P4A	7204 C.P4S	7204 CP4
25	37	7	3.9	3.05	40000	63000	0.019	71805 A5P4	71805 ACD/HCP4	71805 E.P4S	71805 A5P4
25	37	7	3.9	3.05	34000	53000	0.021	71805 A5P4	71805 ACD/P4	71805 E.P4S	71805 A5P4
25	37	7	4.16	3.2	45000	70000	0.019	71805 CP4	71805 CD/HCP4A	71805 C.P4S	71805 CP4
25	37	7	4.16	3.2	38000	56000	0.021	71805 CP4	71805 CD/P4A	71805 C.P4S	71805 CP4



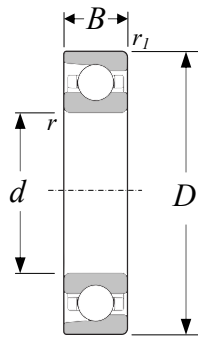
HIGH PRECISION BEARINGS
Angular Contact Ball Bearings

Table 125
Bore Diameter 25mm – 35mm

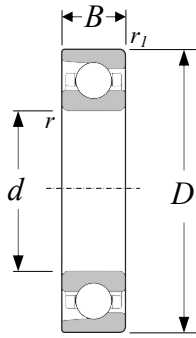
Principal Dimensions			Basic Load Ratings		Max. Speed		Mass	Designations			
d	D	B	Dynamic C	Static C ₀	Grease	Oil-Air		Local	SKF	FAG	NSK
mm			kN		r/min	kg					
25	42	9	6.37	3.8	38000	56000	0.037	71905 A5P4	71905 ACD/HCP4A	71905 E.P4S	71905 A5P4
25	42	9	6.37	3.8	32000	48000	0.042	71905 A5P4	71905 ACD/P4A	71905 E.P4S	71905 A5P4
25	42	9	4.94	2.55	48000	75000	0.038	71905 A5P4	71905 ACE/HCP4A	71905 E.P4S	71905 A5P4
25	42	9	4.94	2.55	40000	67000	0.042	71905 A5P4	71905 ACE/P4A	71905 E.P4S	71905 A5P4
25	42	9	6.76	4	45000	63000	0.037	71905 CP4	71905 CD/HCP4A	71905 C.P4S	71905 CP4
25	42	9	6.76	4	36000	53000	0.042	71905 CP4	71905 CD/P4A	71905 C.P4S	71905 CP4
25	42	9	5.27	2.7	53000	85000	0.038	71905 CP4	71905 CE/HCP4A	71905 C.P4S	71905 CP4
25	42	9	5.27	2.7	48000	70000	0.042	71905 CP4	71905 CE/P4A	71905 C.P4S	71905 CP4
25	47	12	9.23	5	36000	53000	0.066	7005 A5P4	7005 ACD/HCP4A	7005 E.P4S	7005 A5P4
25	47	12	9.23	5	28000	43000	0.075	7005 A5P4	7005 ACD/P4A	7005 E.P4S	7005 A5P4
25	47	12	7.41	3.55	43000	67000	0.064	7005 A5P4	7005 ACE/HCP4A	7005 E.P4S	7005 A5P4
25	47	12	7.41	3.55	38000	60000	0.073	7005 A5P4	7005 ACE/P4A	7005 E.P4S	7005 A5P4
25	47	12	9.56	5.2	38000	56000	0.066	7005 CP4	7005 CD/HCP4A	7005 C.P4S	7005 CP4
25	47	12	9.56	5.6	34000	50000	0.075	7005 CP4	7005 CD/P4A	7005 C.P4S	7005 CP4
25	47	12	7.8	3.75	50000	75000	0.064	7005 CP4	7005 CE/HCP4A	7005 C.P4S	7005 CP4
25	47	12	7.8	3.75	43000	67000	0.073	7005 CP4	7005 CE/P4A	7005 C.P4S	7005 CP4
25	52	15	13	6.95	32000	48000	0.12	7205 A5P4	7205 ACD/HCP4A	7205 E.P4S	7205 A5P4
25	52	15	13	6.95	26000	40000	0.14	7205 A5P4	7205 ACD/P4A	7205 E.P4S	7205 A5P4
25	52	15	13.5	7.2	38000	53000	0.12	7205 CP4	7205 CD/HCP4A	7205 C.P4S	7205 CP4
25	52	15	13.5	7.2	30000	45000	0.14	7205 CP4	7205 CD/P4A	7205 C.P4S	7205 CP4
30	42	7	4.16	3.55	34000	53000	0.024	71806 A5P4	71806 ACD/HCP4A	71806 E.P4S	71806 A5P4
30	42	7	4.16	3.55	28000	45000	0.026	71806 A5P4	71806 ACD/P4A	71806 E.P4S	71806 A5P4
30	42	7	4.42	3.75	38000	60000	0.024	71806 CP4	71806 CD/HCP4A	71806 C.P4S	71806 CP4
30	42	7	4.42	3.75	32000	50000	0.026	71806 CP4	71806 CD/P4A	71806 C.P4S	71806 CP4
30	47	9	6.76	4.3	32000	48000	0.043	71906 A5P4	71906 ACD/HCP4A	71906 E.P4S	71906 A5P4
30	47	9	6.76	4.3	26000	40000	0.048	71906 A5P4	71906 ACD/P4A	71906 E.P4S	71906 A5P4
30	47	9	5.27	2.9	40000	63000	0.043	71906 A5P4	71906 ACE/HCP4A	71906 E.P4S	71906 A5P4
30	47	9	5.27	2.9	36000	56000	0.048	71906 A5P4	71906 ACE/P4A	71906 E.P4S	71906 A5P4
30	47	9	7.15	4.55	38000	53000	0.043	71906 CP4	71906 CD/HCP4A	71906 C.P4S	71906 CP4
30	47	9	7.15	4.55	30000	45000	0.048	71906 CP4	71906 CD/P4A	71906 C.P4S	71906 CP4
30	47	9	5.59	3.1	45000	70000	0.043	71906 CP4	71906 CE/HCP4A	71906 C.P4S	71906 CP4
30	47	9	5.59	3.1	40000	63000	0.048	71906 CP4	71906 CE/P4A	71906 C.P4S	71906 CP4
30	47	9	6.24	5.2	32000	50000	0.045	71906 DB	71906 DB/P7	71906 DB/P7	71906 DB
30	47	9	6.5	5.4	36000	56000	0.045	71906 W	71906 FB/P7	71906 FB/P7	71906 W
30	55	13	13.8	7.65	30000	45000	0.094	7006 A5P4	7006 ACD/HCP4A	7006 E.P4S	7006 A5P4
30	55	13	13.8	7.65	24000	38000	0.11	7006 A5P4	7006 ACD/P4A	7006 E.P4S	7006 A5P4
30	55	13	9.56	4.9	38000	60000	0.095	7006 A5P4	7006 ACE/HCP4A	7006 E.P4S	7006 A5P4
30	55	13	9.56	4.9	32000	50000	0.11	7006 A5P4	7006 ACE/P4A	7006 E.P4S	7006 A5P4
30	55	13	14.3	8	32000	48000	0.094	7006 CP4	7006 CD/HCP4A	7006 C.P4S	7006 CP4
30	55	13	14.3	8	28000	43000	0.11	7006 CP4	7006 CD/P4A	7006 C.P4S	7006 CP4
30	55	13	10.1	5.1	43000	67000	0.095	7006 CP4	7006 CE/HCP4A	7006 C.P4S	7006 CP4
30	55	13	10.1	5.1	38000	56000	0.11	7006 CP4	7006 CE/P4A	7006 C.P4S	7006 CP4
30	55	13	8.32	6.7	30000	45000	0.12	7006 DB	7006 DB/P7	7006 DB/P7	7006 DB
30	55	13	8.71	6.95	32000	50000	0.12	7006 W	7006 FB/P7	7006 FB/P7	7006 W
30	62	16	23.4	15.3	26000	40000	0.17	7206 A5P4	7206 ACD/HCP4A	7206 E.P4S	7206 A5P4
30	62	16	23.4	15.3	20000	34000	0.19	7206 A5P4	7206 ACD/P4A	7206 E.P4S	7206 A5P4
30	62	16	24.2	16	32000	45000	0.17	7206 CP4	7206 CD/HCP4A	7206 C.P4S	7206 CP4
30	62	16	24.2	16	24000	38000	0.19	7206 CP4	7206 CD/P4A	7206 C.P4S	7206 CP4
35	47	7	4.36	4.05	30000	48000	0.026	71807 A5P4	71807 ACD/HCP4A	71807 E.P4S	71807 A5P4
35	47	7	4.36	4.05	26000	40000	0.028	71807 A5P4	71807 ACD/P4A	71807 E.P4S	71807 A5P4

HIGH PRECISION BEARINGS
Angular Contact Ball Bearings

Table 126
Bore Diameter 35mm – 40mm



Principal Dimensions			Basic Load Ratings		Max. Speed		Mass	Designations			
d	D	B	Dynamic C	Static C ₀	Grease	Oil-Air		Local	SKF	FAG	NSK
mm			kN		r/min		kg				
35	47	7	4.62	4.3	34000	53000	0.026	71807 CP4	71807 CD/HCP4A	71807 C.P4S	71807 CP4
35	47	7	4.62	4.3	28000	43000	0.028	71807 CP4	71807 CD/P4A	71807 C.P4S	71807 CP4
35	55	10	9.23	6.2	28000	43000	0.065	71907 A5P4	71907 ACD/HCP4A	71907 E.P4S	71907 A5P4
35	55	10	9.23	6.2	22000	36000	0.074	71907 A5P4	71907 ACD/P4A	71907 E.P4S	71907 A5P4
35	55	10	7.15	4.15	36000	56000	0.066	71907 A5P4	71907 ACE/HCP4A	71907 E.P4S	71907 A5P4
35	55	10	7.15	4.15	30000	48000	0.075	71907 A5P4	71907 ACE/P4A	71907 E.P4S	71907 A5P4
35	55	10	9.75	6.55	32000	45000	0.065	71907 CP4	71907 CD/HCP4A	71907 C.P4S	71907 CP4
35	55	10	9.75	6.55	26000	40000	0.074	71907 CP4	71907 CD/P4A	71907 C.P4S	71907 CP4
35	55	10	7.61	4.4	40000	60000	0.066	71907 CP4	71907 CE/HCP4A	71907 C.P4S	71907 CP4
35	55	10	7.61	4.4	36000	53000	0.075	71907 CP4	71907 CE/P4A	71907 C.P4S	71907 CP4
35	55	10	6.5	6	28000	43000	0.075	71907 DB	71907 DB/P7	71907 DB/P7	71907 DB
35	55	10	6.89	6.3	30000	48000	0.075	71907 W	71907 FB/P7	71907 FB/P7	71907 W
35	62	14	14.8	9	24000	38000	0.13	7007 A5P4	7007 ACD/HCP4A	7007 E.P4S	7007 A5P4
35	62	14	14.8	9	19000	32000	0.15	7007 A5P4	7007 ACD/P4A	7007 E.P4S	7007 A5P4
35	62	14	10.4	5.7	32000	50000	0.13	7007 A5P4	7007 ACE/HCP4A	7007 E.P4S	7007 A5P4
35	62	14	10.4	5.7	28000	45000	0.15	7007 A5P4	7007 ACE/P4A	7007 E.P4S	7007 A5P4
35	62	14	15.6	9.5	28000	43000	0.13	7007 CP4	7007 CD/HCP4A	7007 C.P4S	7007 CP4
35	62	14	15.6	9.5	22000	36000	0.15	7007 CP4	7007 CD/P4A	7007 C.P4S	7007 CP4
35	62	14	10.8	6	36000	56000	0.13	7007 CP4	7007 CE/HCP4A	7007 C.P4S	7007 CP4
35	62	14	10.8	6	32000	50000	0.15	7007 CP4	7007 CE/P4A	7007 C.P4S	7007 CP4
35	62	14	8.84	7.8	26000	40000	0.17	7007 DB	7007 DB/P7	7007 DB/P7	7007 DB
35	62	14	9.23	8.15	28000	45000	0.17	7007 W	7007 FB/P7	7007 FB/P7	7007 W
35	72	17	30.7	20.8	20000	34000	0.24	7207 A5P4	7207 ACD/HCP4A	7207 E.P4S	7207 A5P4
35	72	17	30.7	2.08	18000	30000	0.28	7207 A5P4	7207 ACD/P4A	7207 E.P4S	7207 A5P4
35	72	17	31.9	21.6	26000	38000	0.24	7207 CP4	7207 CD/HCP4A	7207 C.P4S	7207 CP4
35	72	17	31.9	2.16	20000	34000	0.28	7207 CP4	7207 CD/P4A	7207 C.P4S	7207 CP4
40	52	7	4.49	4.55	28000	43000	0.029	71808 A5P4	71808 ACD/HCP4	71808 E.P4S	71808 A5P4
40	52	7	4.49	4.55	22000	34000	0.031	71808 A5P4	71808 ACD/P4	71808 E.P4S	71808 A5P4
40	52	7	4.88	4.9	30000	45000	0.029	71808 CP4	71808 CD/HCP4A	71808 C.P4S	71808 CP4
40	52	7	4.88	4.9	26000	38000	0.031	71808 CP4	71808 CD/P4A	71808 C.P4S	71808 CP4
40	62	12	11.7	8	22000	36000	0.096	71908 A5P4	71908 ACD/HCP4A	71908 E.P4S	71908 A5P4
40	62	12	11.7	8	18000	30000	0.11	71908 A5P4	71908 ACD/P4A	71908 E.P4S	71908 A5P4
40	62	12	9.23	5.4	30000	48000	0.097	71908 A5P4	71908 ACE/HCP4A	71908 E.P4S	71908 A5P4
40	62	12	9.23	5.4	28000	43000	0.109	71908 A5P4	71908 ACE/P4A	71908 E.P4S	71908 A5P4
40	62	12	12.4	8.5	28000	40000	0.096	71908 CP4	71908 CD/HCP4A	71908 C.P4S	71908 CP4
40	62	12	12.4	8.5	20000	34000	0.11	71908 CP4	71908 CD/P4A	71908 C.P4S	71908 CP4
40	62	12	9.56	5.7	34000	53000	0.097	71908 CP4	71908 CE/HCP4A	71908 C.P4S	71908 CP4
40	62	12	9.56	5.7	30000	48000	0.109	71908 CP4	71908 CE/P4A	71908 C.P4S	71908 CP4
40	62	12	6.89	6.8	24000	38000	0.12	71908 DB	71908 DB/P7	71908 DB/P7	71908 DB
40	62	12	7.15	7.2	28000	43000	0.12	71908 W	71908 FB/P7	71908 FB/P7	71908 W
40	68	15	15.9	10.4	20000	34000	0.16	7008 A5P4	7008 ACD/HCP4A	7008 E.P4S	7008 A5P4
40	68	15	15.9	10.4	18000	30000	0.19	7008 A5P4	7008 ACD/P4A	7008 E.P4S	7008 A5P4
40	68	15	11.1	6.55	30000	45000	0.17	7008 A5P4	7008 ACE/HCP4A	7008 E.P4S	7008 A5P4
40	68	15	11.1	6.55	26000	40000	0.18	7008 A5P4	7008 ACE/P4A	7008 E.P4S	7008 A5P4
40	68	15	16.8	11	24000	38000	0.16	7008 CP4	7008 CD/HCP4A	7008 C.P4S	7008 CP4
40	68	15	16.8	11	19000	32000	0.19	7008 CP4	7008 CD/P4A	7008 C.P4S	7008 CP4
40	68	15	11.7	6.8	32000	50000	0.17	7008 CP4	7008 CE/HCP4A	7008 C.P4S	7008 CP4
40	68	15	11.7	6.8	30000	45000	0.18	7008 CP4	7008 CE/P4A	7008 C.P4S	7008 CP4
40	68	15	9.36	9	22000	36000	0.21	7008 DB	7008 DB/P7	7008 DB/P7	7008 DB
40	68	15	9.75	9.5	26000	40000	0.21	7008 W	7008 FB/P7	7008 FB/P7	7008 W



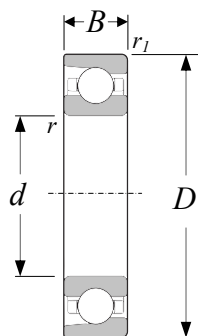
HIGH PRECISION BEARINGS
Angular Contact Ball Bearings

Table 127
Bore Diameter 40mm – 50mm

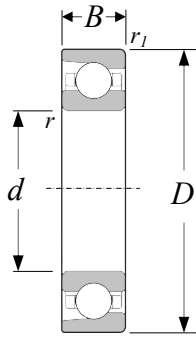
Principal Dimensions			Basic Load Ratings		Max. Speed		Mass	Designations				
d	D	B	Dynamic	Static	Grease	Oil-Air		Local		SKF	FAG	NSK
mm			C	C ₀			kg					
			kN		r/min							
40	80	18	39	27	19000	32000	0.3	7208 A5P4	7208 ACD/HCP4A	7208 E.P4S	7208 A5P4	
40	80	18	39	27	16000	26000	0.36	7208 A5P4	7208 ACD/P4A	7208 E.P4S	7208 A5P4	
40	80	18	41	28	22000	34000	0.3	7208 CP4	7208 CD/HCP4A	7208 C.P4S	7208 CP4	
40	80	18	41	28	18000	30000	0.36	7208 CP4	7208 CD/P4A	7208 C.P4S	7208 CP4	
45	58	7	4.62	5	24000	38000	0.037	71809 A5P4	71809 ACD/HCP4A	71809 E.P4S	71809 A5P4	
45	58	7	4.62	5	20000	30000	0.039	71809 A5P4	71809 ACD/P4A	71809 E.P4S	71809 A5P4	
45	58	7	4.88	5.3	26000	40000	0.037	71809 CP4	71809 CD/HCP4A	71809 C.P4S	71809 CP4	
45	58	7	4.88	5.3	22000	34000	0.039	71809 CP4	71809 CD/P4A	71809 C.P4S	71809 CP4	
45	68	12	12.4	9	20000	34000	0.11	71909 A5P4	71909 ACD/HCP4A	71909 E.P4S	71909 A5P4	
45	68	12	12.4	9	17000	28000	0.13	71909 A5P4	71909 ACD/P4A	71909 E.P4S	71909 A5P4	
45	68	12	9.56	6.1	28000	43000	0.12	71909 A5P4	71909 ACE/HCP4A	71909 E.P4S	71909 A5P4	
45	68	12	9.56	6.1	24000	38000	0.13	71909 A5P4	71909 ACE/P4A	71909 E.P4S	71909 A5P4	
45	68	12	13	9.5	24000	36000	0.11	71909 CP4	71909 CD/HCP4A	71909 C.P4S	71909 CP4	
45	68	12	13	9.5	19000	32000	0.13	71909 CP4	71909 CD/P4A	71909 C.P4S	71909 CP4	
45	68	12	10.1	6.4	32000	48000	0.12	71909 CP4	71909 CE/HCP4A	71909 C.P4S	71909 CP4	
45	68	12	10.1	6.4	28000	43000	0.13	71909 CP4	71909 CE/P4A	71909 C.P4S	71909 CP4	
45	68	12	9.56	9.5	22000	34000	0.13	71909 DB	71909 DB/P7	71909 DB/P7	71909 DB	
45	68	12	9.95	9.8	24000	38000	0.13	71909 W	71909 FB/P7	71909 FB/P7	71909 W	
45	75	16	27.6	21.6	19000	32000	0.2	7009 A5P4	7009 ACD/HCP4A	7009 E.P4S	7009 A5P4	
45	75	16	27.6	21.6	16000	26000	0.23	7009 A5P4	7009 ACD/P4A	7009 E.P4S	7009 A5P4	
45	75	16	13.3	8	26000	40000	0.21	7009 A5P4	7009 ACE/HCP4A	7009 E.P4S	7009 A5P4	
45	75	16	13.3	8	24000	36000	0.23	7009 A5P4	7009 ACE/P4A	7009 E.P4S	7009 A5P4	
45	75	16	28.6	22.4	20000	34000	0.2	7009 CP4	7009 CD/HCP4A	7009 C.P4S	7009 CP4	
45	75	16	28.6	22.4	18000	30000	0.23	7009 CP4	7009 CD/P4A	7009 C.P4S	7009 CP4	
45	75	16	14	8.5	30000	45000	0.21	7009 CP4	7009 CE/HCP4A	7009 C.P4S	7009 CP4	
45	75	16	14	8.5	26000	40000	0.23	7009 CP4	7009 CE/P4A	7009 C.P4S	7009 CP4	
45	75	16	12.1	11.8	20000	32000	0.26	7009 DB	7009 DB/P7	7009 DB/P7	7009 DB	
45	75	16	12.7	12.2	22000	36000	0.26	7009 W	7009 FB/P7	7009 FB/P7	7009 W	
45	85	19	41	30	17000	28000	0.34	7209 A5P4	7209 ACD/HCP4A	7209 E.P4S	7209 A5P4	
45	85	19	41	30	15000	24000	0.41	7209 A5P4	7209 ACD/P4A	7209 E.P4S	7209 A5P4	
45	85	19	42.3	31	20000	32000	0.34	7209 CP4	7209 CD/HCP4A	7209 C.P4S	7209 CP4	
45	85	19	42.3	31	17000	28000	0.41	7209 CP4	7209 CD/P4A	7209 C.P4S	7209 CP4	
50	65	7	6.89	7.35	22000	34000	0.046	71810 A5P4	71810 ACD/HCP4A	71810 E.P4S	71810 A5P4	
50	65	7	6.89	7.35	18000	28000	0.051	71810 A5P4	71810 ACD/P4A	71810 E.P4S	71810 A5P4	
50	65	7	7.41	7.8	24000	36000	0.046	71810 CP4	71810 CD/HCP4A	71810 C.P4S	71810 CP4	
50	65	7	7.41	7.8	20000	30000	0.051	71810 CP4	71810 CD/P4A	71810 C.P4S	71810 CP4	
50	72	12	12.7	9.8	19000	30000	0.11	71910 A5P4	71910 ACD/HCP4A	71910 E.P4S	71910 A5P4	
50	72	12	12.7	9.8	16000	26000	0.13	71910 A5P4	71910 ACD/P4A	71910 E.P4S	71910 A5P4	
50	72	12	9.95	6.7	26000	40000	0.13	71910 A5P4	71910 ACE/HCP4A	71910 E.P4S	71910 A5P4	
50	72	12	9.95	6.7	22000	36000	0.13	71910 A5P4	71910 ACE/P4A	71910 E.P4S	71910 A5P4	
50	72	12	13.5	10.4	22000	34000	0.11	71910 CP4	71910 CD/HCP4A	71910 C.P4S	71910 CP4	
50	72	12	13.5	10.4	17000	28000	0.13	71910 CP4	71910 CD/P4A	71910 C.P4S	71910 CP4	
50	72	12	10.6	7.1	28000	45000	0.13	71910 CP4	71910 CE/HCP4A	71910 C.P4S	71910 CP4	
50	72	12	10.6	7.1	26000	40000	0.13	71910 CP4	71910 CE/P4A	71910 C.P4S	71910 CP4	
50	72	12	9.75	10.2	20000	32000	0.14	71910 DB	71910 DB/P7	71910 DB/P7	71910 DB	
50	72	12	10.1	10.6	22000	36000	0.14	71910 W	71910 FB/P7	71910 FB/P7	71910 W	
50	80	16	28.1	23.2	17000	28000	0.21	7010 A5P4	7010 ACD/HCP4A	7010 E.P4S	7010 A5P4	
50	80	16	28.1	23.2	15000	24000	0.25	7010 A5P4	7010 ACD/P4A	7010 E.P4S	7010 A5P4	
50	80	16	14	9	24000	38000	0.23	7010 A5P4	7010 ACE/HCP4A	7010 E.P4S	7010 A5P4	
50	80	16	14	9	22000	34000	0.25	7010 A5P4	7010 ACE/P4A	7010 E.P4S	7010 A5P4	

HIGH PRECISION BEARINGS
Angular Contact Ball Bearings

Table 128
Bore Diameter 50mm – 60mm



Principal Dimensions			Basic Load Ratings		Max. Speed		Mass	Designations			
d	D	B	Dynamic C	Static C ₀	Grease	Oil-Air		Local	SKF	FAG	NSK
mm			kN		r/min						
50	80	16	29.6	24	19000	32000	0.21	7010 CP4	7010 CD/HCP4A	7010 C.P4S	7010 CP4
50	80	16	29.6	24	17000	28000	0.25	7010 CP4	7010 CD/P4A	7010 C.P4S	7010 CP4
50	80	16	14.8	9.5	28000	43000	0.23	7010 CP4	7010 CE/HCP4A	7010 C.P4S	7010 CP4
50	80	16	14.8	9.5	24000	36000	0.25	7010 CP4	7010 CE/P4A	7010 C.P4S	7010 CP4
50	80	16	12.5	12.9	19000	30000	0.28	7010 DB	7010 DB/P7	7010 DB/P7	7010 DB
50	80	16	13.3	13.4	22000	34000	0.28	7010 W	7010 FB/P7	7010 FB/P7	7010 W
50	90	20	42.3	32.5	16000	26000	0.38	7210 A5P4	7210 ACD/HCP4A	7210 E.P4S	7210 A5P4
50	90	20	42.3	32.5	14000	22000	0.46	7210 A5P4	7210 ACD/P4A	7210 E.P4S	7210 A5P4
50	90	20	44.9	34	19000	30000	0.38	7210 CP4	7210 CD/HCP4A	7210 C.P4S	7210 CP4
50	90	20	44.9	34	16000	26000	0.46	7210 CP4	7210 CD/P4A	7210 C.P4S	7210 CP4
55	72	9	9.56	10.2	19000	30000	0.073	71811 A5P4	71811 ACD/HCP4	71811 E.P4S	71811 A5P4
55	72	9	9.56	10.2	16000	24000	0.081	71811 A5P4	71811 ACD/P4	71811 E.P4S	71811 A5P4
55	72	9	10.1	10.8	22000	32000	0.073	71811 CP4	71811 CD/HCP4A	71811 C.P4S	71811 CP4
55	72	9	10.1	10.8	18000	28000	0.081	71811 CP4	71811 CD/P4A	71811 C.P4S	71811 CP4
55	80	13	18.2	13.7	17000	28000	0.15	71911 A5P4	71911 ACD/HCP4A	71911 E.P4S	71911 A5P4
55	80	13	18.2	13.7	15000	24000	0.18	71911 A5P4	71911 ACD/P4A	71911 E.P4S	71911 A5P4
55	80	13	14.6	9.5	24000	36000	0.15	71911 A5P4	71911 ACE/HCP4A	71911 E.P4S	71911 A5P4
55	80	13	14.6	9.5	20000	32000	0.18	71911 A5P4	71911 ACE/P4A	71911 E.P4S	71911 A5P4
55	80	13	19.5	14.6	19000	30000	0.15	71911 CP4	71911 CD/HCP4A	71911 C.P4S	71911 CP4
55	80	13	19.5	14.6	16000	26000	0.18	71911 CP4	71911 CD/P4A	71911 C.P4S	71911 CP4
55	80	13	15.3	10	26000	40000	0.15	71911 CP4	71911 CE/HCP4A	71911 C.P4S	71911 CP4
55	80	13	15.3	10	24000	36000	0.18	71911 CP4	71911 CE/P4A	71911 C.P4S	71911 CP4
55	80	13	12.7	13.4	18000	30000	0.18	71911 DB	71911 DB/P7	71911 DB/P7	71911 DB
55	80	13	13.3	14	20000	32000	0.18	71911 W	71911 FB/P7	71911 FB/P7	71911 W
55	90	18	37.1	31	16000	26000	0.31	7011 A5P4	7011 ACD/HCP4A	7011 E.P4S	7011 A5P4
55	90	18	37.1	31	14000	22000	0.37	7011 A5P4	7011 ACD/P4A	7011 E.P4S	7011 A5P4
55	90	18	14.8	10	22000	34000	0.36	7011 A5P4	7011 ACE/HCP4A	7011 E.P4S	7011 A5P4
55	90	18	14.8	10	19000	30000	0.39	7011 A5P4	7011 ACE/P4A	7011 E.P4S	7011 A5P4
55	90	18	39.7	32.5	17000	28000	0.31	7011 CP4	7011 CD/HCP4A	7011 C.P4S	7011 CP4
55	90	18	39.7	32.5	15000	24000	0.37	7011 CP4	7011 CD/P4A	7011 C.P4S	7011 CP4
55	90	18	15.6	10.6	24000	38000	0.36	7011 CP4	7011 CE/HCP4A	7011 C.P4S	7011 CP4
55	90	18	15.6	10.6	22000	34000	0.39	7011 CP4	7011 CE/P4A	7011 C.P4S	7011 CP4
55	90	18	17.8	18	17000	28000	0.4	7011 DB	7011 DB/P7	7011 DB/P7	7011 DB
55	90	18	18.6	18.6	19000	30000	0.4	7011 W	7011 FB/P7	7011 FB/P7	7011 W
55	100	21	52.7	40.5	15000	24000	0.51	7211 A5P4	7211 ACD/HCP4A	7211 E.P4S	7211 A5P4
55	100	21	52.7	40.5	13000	20000	0.61	7211 A5P4	7211 ACD/P4A	7211 E.P4S	7211 A5P4
55	100	21	55.3	43	17000	26000	0.51	7211 CP4	7211 CD/HCP4A	7211 C.P4S	7211 CP4
55	100	21	55.3	43	14000	22000	0.61	7211 CP4	7211 CD/P4A	7211 C.P4S	7211 CP4
60	78	10	12.7	13.4	18000	26000	0.088	71812 A5P4	71812 ACD/HCP4	71812 E.P4S	71812 A5P4
60	78	10	12.7	13.4	15000	22000	0.1	71812 A5P4	71812 ACD/P4	71812 E.P4S	71812 A5P4
60	78	10	13.5	14.3	19000	30000	0.088	71812 CP4	71812 CD/HCP4A	71812 C.P4S	71812 CP4
60	78	10	13.5	14.3	16000	24000	0.1	71812 CP4	71812 CD/P4A	71812 C.P4S	71812 CP4
60	85	13	18.6	14.6	16000	26000	0.16	71912 A5P4	71912 ACD/HCP4A	71912 E.P4S	71912 A5P4
60	85	13	18.6	14.6	14000	22000	0.19	71912 A5P4	71912 ACD/P4A	71912 E.P4S	71912 A5P4
60	85	13	14.8	10	22000	34000	0.16	71912 A5P4	71912 ACE/HCP4A	71912 E.P4S	71912 A5P4
60	85	13	14.8	10	19000	30000	0.19	71912 A5P4	71912 ACE/P4A	71912 E.P4S	71912 A5P4
60	85	13	19.9	15.3	18000	28000	0.16	71912 CP4	71912 CD/HCP4A	71912 C.P4S	71912 CP4
60	85	13	19.9	15.3	15000	24000	0.19	71912 CP4	71912 CD/P4A	71912 C.P4S	71912 CP4
60	85	13	15.6	10.6	24000	38000	0.16	71912 CP4	71912 CE/HCP4A	71912 C.P4S	71912 CP4
60	85	13	15.6	10.6	22000	34000	0.19	71912 CP4	71912 CE/P4A	71912 C.P4S	71912 CP4



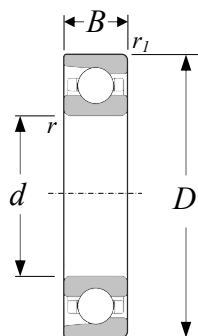
HIGH PRECISION BEARINGS
Angular Contact Ball Bearings

Table 129
Bore Diameter 60mm – 70mm

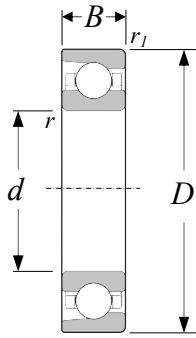
Principal Dimensions			Basic Load Ratings		Max. Speed		Mass	Designations			
d	D	B	Dynamic	Static	Grease	Oil-Air		Local	SKF	FAG	NSK
mm			C	C ₀	r/min						
60	85	13	13	14.3	17000	28000	0.2	71912 DB	71912 DB/P7	71912 DB/P7	71912 DB
60	85	13	13.8	15	19000	30000	0.2	71912 W	71912 FB/P7	71912 FB/P7	71912 W
60	95	18	39	33.5	15000	24000	0.34	7012 A5P4	7012 ACD/HCP4A	7012 E.P4S	7012 A5P4
60	95	18	39	33.5	13000	20000	0.4	7012 A5P4	7012 ACD/P4A	7012 E.P4S	7012 A5P4
60	95	18	15.3	11	20000	32000	0.39	7012 A5P4	7012 ACE/HCP4A	7012 E.P4S	7012 A5P4
60	95	18	15.3	11	18000	28000	0.42	7012 A5P4	7012 ACE/P4A	7012 E.P4S	7012 A5P4
60	95	18	40.3	34.5	16000	26000	0.34	7012 CP4	7012 CD/HCP4A	7012 C.P4S	7012 CP4
60	95	18	40.3	34.5	14000	22000	0.4	7012 CP4	7012 CD/P4A	7012 C.P4S	7012 CP4
60	95	18	16.3	11.6	22000	36000	0.39	7012 CP4	7012 CE/HCP4A	7012 C.P4S	7012 CP4
60	95	18	16.3	11.6	20000	30000	0.42	7012 CP4	7012 CE/P4A	7012 C.P4S	7012 CP4
60	95	18	18.2	19.6	16000	26000	0.44	7012 DB	7012 DB/P7	7012 DB/P7	7012 DB
60	95	18	19	20.4	18000	28000	0.44	7012 W	7012 FB/P7	7012 FB/P7	7012 W
60	110	22	63.7	50	14000	22000	0.65	7212 A5P4	7212 ACD/HCP4A	7212 E.P4S	7212 A5P4
60	110	22	63.7	50	11000	18000	0.8	7212 A5P4	7212 ACD/P4A	7212 E.P4S	7212 A5P4
60	110	22	67.6	53	16000	24000	0.65	7212 CP4	7212 CD/HCP4A	7212 C.P4S	7212 CP4
60	110	22	67.6	53	13000	20000	0.8	7212 CP4	7212 CD/P4A	7212 C.P4S	7212 CP4
65	85	10	12.7	14	16000	24000	0.114	71813 A5P4	71813 ACD/HCP4	71813 E.P4S	71813 A5P4
65	85	10	12.7	14	13000	20000	0.126	71813 A5P4	71813 ACD/P4	71813 E.P4S	71813 A5P4
65	85	10	13.5	14.6	18000	28000	0.114	71813 CP4	71813 CD/HCP4A	71813 C.P4S	71813 CP4
65	85	10	13.5	14.6	15000	22000	0.126	71813 CP4	71813 CD/P4A	71813 C.P4S	71813 CP4
65	90	13	19.5	16	15000	24000	0.17	71913 A5P4	71913 ACD/HCP4A	71913 E.P4S	71913 A5P4
65	90	13	19.5	16	13000	20000	0.21	71913 A5P4	71913 ACD/P4A	71913 E.P4S	71913 A5P4
65	90	13	15.3	11	20000	32000	0.17	71913 A5P4	71913 ACE/HCP4A	71913 E.P4S	71913 A5P4
65	90	13	15.3	11	18000	28000	0.2	71913 A5P4	71913 ACE/P4A	71913 E.P4S	71913 A5P4
65	90	13	20.8	17	17000	26000	0.17	71913 CP4	71913 CD/HCP4A	71913 C.P4S	71913 CP4
65	90	13	20.8	17	14000	22000	0.21	71913 CP4	71913 CD/P4A	71913 C.P4S	71913 CP4
65	90	13	16.3	11.6	22000	36000	0.17	71913 CP4	71913 CE/HCP4A	71913 C.P4S	71913 CP4
65	90	13	16.3	11.6	20000	30000	0.2	71913 CP4	71913 CE/P4A	71913 C.P4S	71913 CP4
65	90	13	13.8	16	16000	26000	0.2	71913 DB	71913 DB/P7	71913 DB/P7	71913 DB
65	90	13	14.3	16.6	18000	28000	0.2	71913 W	71913 FB/P7	71913 FB/P7	71913 W
65	100	18	39	35.5	14000	22000	0.36	7013 A5P4	7013 ACD/HCP4A	7013 E.P4S	7013 A5P4
65	100	18	39	35.5	12000	19000	0.42	7013 A5P4	7013 ACD/P4A	7013 E.P4S	7013 A5P4
65	100	18	15.9	12	19000	30000	0.41	7013 A5P4	7013 ACE/HCP4A	7013 E.P4S	7013 A5P4
65	100	18	15.9	12	17000	26000	0.44	7013 A5P4	7013 ACE/P4A	7013 E.P4S	7013 A5P4
65	100	18	41.6	37.5	15000	24000	0.36	7013 CP4	7013 CD/HCP4A	7013 C.P4S	7013 CP4
65	100	18	41.6	37.5	14000	22000	0.42	7013 CP4	7013 CD/P4A	7013 C.P4S	7013 CP4
65	100	18	16.8	12.7	22000	34000	0.41	7013 CP4	7013 CE/HCP4A	7013 C.P4S	7013 CP4
65	100	18	16.8	12.7	19000	28000	0.44	7013 CP4	7013 CE/P4A	7013 C.P4S	7013 CP4
65	100	18	19.9	21.2	15000	24000	0.45	7013 DB	7013 DB/P7	7013 DB/P7	7013 DB
65	100	18	20.8	22	17000	26000	0.45	7013 W	7013 FB/P7	7013 FB/P7	7013 W
65	120	23	72.8	57	10000	17000	1	7213 A5P4	7213 ACD/P4A	7213 E.P4S	7213 A5P4
65	120	23	76.1	60	12000	19000	1	7213 CP4	7213 CD/P4A	7213 C.P4S	7213 CP4
70	90	10	13	15	15000	24000	0.121	71814 A5P4	71814 ACD/HCP4	71814 E.P4S	71814 A5P4
70	90	10	13	15	13000	19000	0.134	71814 A5P4	71814 ACD/P4	71814 E.P4S	71814 A5P4
70	90	10	13.8	16	17000	26000	0.121	71814 CP4	71814 CD/HCP4A	71814 C.P4S	71814 CP4
70	90	10	13.8	16	14000	22000	0.134	71814 CP4	71814 CD/P4A	71814 C.P4S	71814 CP4
70	100	16	32.5	32.5	14000	22000	0.28	71914 A5P4	71914 ACD/HCP4A	71914 E.P4S	71914 A5P4
70	100	16	32.5	32.5	11000	18000	0.33	71914 A5P4	71914 ACD/P4A	71914 E.P4S	71914 A5P4
70	100	16	20.3	14.3	18000	28000	0.28	71914 A5P4	71914 ACE/HCP4A	71914 E.P4S	71914 A5P4
70	100	16	20.3	14.3	16000	26000	0.32	71914 A5P4	71914 ACE/P4A	71914 E.P4S	71914 A5P4

HIGH PRECISION BEARINGS
Angular Contact Ball Bearings

Table 130
Bore Diameter 70mm – 80mm



Principal Dimensions			Basic Load Ratings		Max. Speed		Mass	Designations			
d	D	B	Dynamic C	Static C ₀	Grease	Oil-Air		Local	SKF	FAG	NSK
mm			kN		r/min		kg				
70	100	16	34.5	34	16000	24000	0.28	71914 CP4	71914 CD/HCP4A	71914 C.P4S	71914 CP4
70	100	16	34.5	34	13000	20000	0.33	71914 CP4	71914 CD/P4A	71914 C.P4S	71914 CP4
70	100	16	21.6	15	20000	32000	0.28	71914 CP4	71914 CE/HCP4A	71914 C.P4S	71914 CP4
70	100	16	21.6	15	18000	28000	0.32	71914 CP4	71914 CE/P4A	71914 C.P4S	71914 CP4
70	100	16	17.2	20	14000	22000	0.35	71914 DB	71914 DB/P7	71914 DB/P7	71914 DB
70	100	16	18.2	21.2	16000	26000	0.35	71914 W	71914 FB/P7	71914 FB/P7	71914 W
70	110	20	48.8	44	13000	20000	0.49	7014 A5P4	7014 ACD/HCP4A	7014 E.P4S	7014 A5P4
70	110	20	48.8	44	10000	17000	0.59	7014 A5P4	7014 ACD/P4A	7014 E.P4S	7014 A5P4
70	110	20	21.6	15.6	17000	28000	0.56	7014 A5P4	7014 ACE/HCP4A	7014 E.P4S	7014 A5P4
70	110	20	21.6	15.6	15000	24000	0.61	7014 A5P4	7014 ACE/P4A	7014 E.P4S	7014 A5P4
70	110	20	52	45.5	14000	22000	0.49	7014 CP4	7014 CD/HCP4A	7014 C.P4S	7014 CP4
70	110	20	52	45.5	12000	19000	0.59	7014 CP4	7014 CD/P4A	7014 C.P4S	7014 CP4
70	110	20	22.5	16.6	19000	30000	0.56	7014 CP4	7014 CE/HCP4A	7014 C.P4S	7014 CP4
70	110	20	22.5	16.6	17000	26000	0.61	7014 CP4	7014 CE/P4A	7014 C.P4S	7014 CP4
70	110	20	24.7	27	14000	22000	0.64	7014 DB	7014 DB/P7	7014 DB/P7	7014 DB
70	110	20	26	28	15000	24000	0.64	7014 W	7014 FB/P7	7014 FB/P7	7014 W
70	125	24	76.1	62	9500	16000	1.1	7214 A5P4	7214 ACD/P4A	7214 E.P4S	7214 A5P4
70	125	24	79.3	64	11000	18000	1.1	7214 CP4	7214 CD/P4A	7214 C.P4S	7214 CP4
75	95	10	13.3	16	14000	22000	0.128	71815 A5P4	71815 ACD/HCP4	71815 E.P4S	71815 A5P4
75	95	10	13.3	16	12000	18000	0.142	71815 A5P4	71815 ACD/P4	71815 E.P4S	71815 A5P4
75	95	10	14.3	17	16000	24000	0.128	71815 CP4	71815 CD/HCP4A	71815 C.P4S	71815 CP4
75	95	10	14.3	17	13000	20000	0.142	71815 CP4	71815 CD/P4A	71815 C.P4S	71815 CP4
75	105	16	33.8	35.5	13000	20000	0.3	71915 A5P4	71915 ACD/HCP4A	71915 E.P4S	71915 A5P4
75	105	16	33.8	35.5	10000	17000	0.35	71915 A5P4	71915 ACD/P4A	71915 E.P4S	71915 A5P4
75	105	16	21.6	15.6	17000	28000	0.29	71915 A5P4	71915 ACE/HCP4A	71915 E.P4S	71915 A5P4
75	105	16	21.6	15.6	15000	24000	0.35	71915 A5P4	71915 ACE/P4A	71915 E.P4S	71915 A5P4
75	105	16	35.8	37.5	15000	22000	0.3	71915 CP4	71915 CD/HCP4A	71915 C.P4S	71915 CP4
75	105	16	35.8	37.5	12000	19000	0.35	71915 CP4	71915 CD/P4A	71915 C.P4S	71915 CP4
75	105	16	22.5	16.6	19000	30000	0.29	71915 CP4	71915 CE/HCP4A	71915 C.P4S	71915 CP4
75	105	16	22.5	16.6	17000	26000	0.35	71915 CP4	71915 CE/P4A	71915 C.P4S	71915 CP4
75	105	16	17.8	21.6	14000	22000	0.35	71915 DB	71915 DB/P7	71915 DB/P7	71915 DB
75	105	16	18.6	22.4	15000	24000	0.35	71915 W	71915 FB/P7	71915 FB/P7	71915 W
75	115	20	49.4	46.5	12000	19000	0.52	7015 A5P4	7015 ACD/HCP4A	7015 E.P4S	7015 A5P4
75	115	20	49.4	46.5	9500	16000	0.62	7015 A5P4	7015 ACD/P4A	7015 E.P4S	7015 A5P4
75	115	20	21.6	16.3	16000	26000	0.59	7015 A5P4	7015 ACE/HCP4A	7015 E.P4S	7015 A5P4
75	115	20	21.6	16.3	14000	22000	0.64	7015 A5P4	7015 ACE/P4A	7015 E.P4S	7015 A5P4
75	115	20	52.7	49	14000	22000	0.52	7015 CP4	7015 CD/HCP4A	7015 C.P4S	7015 CP4
75	115	20	52.7	49	11000	18000	0.62	7015 CP4	7015 CD/P4A	7015 C.P4S	7015 CP4
75	115	20	22.9	17.3	18000	28000	0.59	7015 CP4	7015 CE/HCP4A	7015 C.P4S	7015 CP4
75	115	20	22.9	17.3	16000	26000	0.64	7015 CP4	7015 CE/P4A	7015 C.P4S	7015 CP4
75	115	20	25.5	29	13000	20000	0.68	7015 DB	7015 DB/P7	7015 DB/P7	7015 DB
75	115	20	26.5	30.5	14000	22000	0.68	7015 W	7015 FB/P7	7015 FB/P7	7015 W
75	130	25	79.3	67	9000	15000	1.2	7215 A5P4	7215 ACD/P4A	7215 E.P4S	7215 A5P4
75	130	25	83.2	69.5	10000	17000	1.2	7215 CP4	7215 CD/P4A	7215 C.P4S	7215 CP4
80	100	10	13.8	17	13000	20000	0.136	71816 A5P4	71816 ACD/HCP4	71816 E.P4S	71816 A5P4
80	100	10	13.8	17	11000	17000	0.151	71816 A5P4	71816 ACD/P4	71816 E.P4S	71816 A5P4
80	100	10	14.6	18.3	15000	22000	0.136	71816 CP4	71816 CD/HCP4A	71816 C.P4S	71816 CP4
80	100	10	14.6	18.3	12000	19000	0.151	71816 CP4	71816 CD/P4A	71816 C.P4S	71816 CP4
80	110	16	34.5	36.5	12000	19000	0.31	71916 A5P4	71916 ACD/HCP4A	71916 E.P4S	71916 A5P4
80	110	16	34.5	36.5	9500	16000	0.37	71916 A5P4	71916 ACD/P4A	71916 E.P4S	71916 A5P4



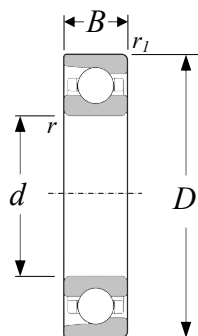
HIGH PRECISION BEARINGS
Angular Contact Ball Bearings

Table 131
Bore Diameter 80mm – 90mm

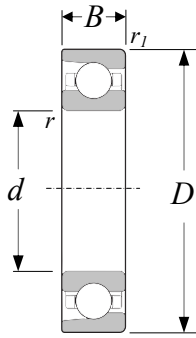
Principal Dimensions			Basic Load Ratings		Max. Speed		Mass	Designations			
d	D	B	Dynamic C	Static C ₀	Grease	Oil-Air		Local	SKF	FAG	NSK
mm			kN		r/min						
80	110	16	21.6	16.3	16000	26000	0.31	71916 A5P4	71916 ACE/HCP4A	71916 E.P4S	71916 A5P4
80	110	16	21.6	16.3	14000	22000	0.36	71916 A5P4	71916 ACE/P4A	71916 E.P4S	71916 A5P4
80	110	16	36.4	39	15000	22000	0.31	71916 CP4	71916 CD/HCP4A	71916 C.P4S	71916 CP4
80	110	16	36.4	39	11000	18000	0.37	71916 CP4	71916 CD/P4A	71916 C.P4S	71916 CP4
80	110	16	22.9	17.3	18000	28000	0.31	71916 CP4	71916 CE/HCP4A	71916 C.P4S	71916 CP4
80	110	16	22.9	17.3	16000	26000	0.36	71916 CP4	71916 CE/P4A	71916 C.P4S	71916 CP4
80	110	16	19.9	24.5	13000	20000	0.38	71916 DB	71916 DB/P7	71916 DB/P7	71916 DB
80	110	16	20.8	25.5	14000	22000	0.38	71916 W	71916 FB/P7	71916 FB/P7	71916 W
80	125	22	62.4	58.5	11000	18000	0.71	7016 A5P4	7016 ACD/HCP4A	7016 E.P4S	7016 A5P4
80	125	22	62.4	58.5	9000	15000	0.85	7016 A5P4	7016 ACD/P4A	7016 E.P4S	7016 A5P4
80	125	22	27.6	20.4	15000	24000	0.77	7016 A5P4	7016 ACE/HCP4A	7016 E.P4S	7016 A5P4
80	125	22	27.6	20.4	13000	20000	0.85	7016 A5P4	7016 ACE/P4A	7016 E.P4S	7016 A5P4
80	125	22	65	61	13000	20000	0.71	7016 CP4	7016 CD/HCP4A	7016 C.P4S	7016 CP4
80	125	22	65	61	10000	17000	0.85	7016 CP4	7016 CD/P4A	7016 C.P4S	7016 CP4
80	125	22	29.1	21.6	17000	26000	0.77	7016 CP4	7016 CE/HCP4A	7016 C.P4S	7016 CP4
80	125	22	29.1	21.6	15000	24000	0.85	7016 CP4	7016 CE/P4A	7016 C.P4S	7016 CP4
80	125	22	33.8	37.5	12000	19000	0.89	7016 DB	7016 DB/P7	7016 DB/P7	7016 DB
80	125	22	35.1	39	13000	20000	0.89	7016 W	7016 FB/P7	7016 FB/P7	7016 W
80	140	26	92.3	78	8500	14000	1.45	7216 A5P4	7216 ACD/P4A	7216 E.P4S	7216 A5P4
80	140	26	97.5	81.5	9500	16000	1.45	7216 CP4	7216 CD/P4A	7216 C.P4S	7216 CP4
85	110	13	20.3	24	12000	19000	0.239	71817 A5P4	71817 ACD/HCP4	71817 E.P4S	71817 A5P4
85	110	13	20.3	24	10000	16000	0.266	71817 A5P4	71817 ACD/P4	71817 E.P4S	71817 A5P4
85	110	13	21.6	25.5	14000	20000	0.239	71817 CP4	71817 CD/HCP4A	71817 C.P4S	71817 CP4
85	110	13	21.6	25.5	11000	17000	0.266	71817 CP4	71817 CD/P4A	71817 C.P4S	71817 CP4
85	120	18	43.6	45.5	11000	18000	0.44	71917 A5P4	71917 ACD/HCP4A	71917 E.P4S	71917 A5P4
85	120	18	43.6	45.5	9000	15000	0.53	71917 A5P4	71917 ACD/P4A	71917 E.P4S	71917 A5P4
85	120	18	27.6	20.4	15000	24000	0.44	71917 A5P4	71917 ACE/HCP4A	71917 E.P4S	71917 A5P4
85	120	18	27.6	20.4	13000	20000	0.52	71917 A5P4	71917 ACE/P4A	71917 E.P4S	71917 A5P4
85	120	18	46.2	48	14000	20000	0.44	71917 CP4	71917 CD/HCP4A	71917 C.P4S	71917 CP4
85	120	18	46.2	48	10000	17000	0.53	71917 CP4	71917 CD/P4A	71917 C.P4S	71917 CP4
85	120	18	29.1	21.6	17000	26000	0.44	71917 CP4	71917 CE/HCP4A	71917 C.P4S	71917 CP4
85	120	18	29.1	21.6	15000	24000	0.52	71917 CP4	71917 CE/P4A	71917 C.P4S	71917 CP4
85	120	18	21.6	26.5	12000	19000	0.54	71917 DB	71917 DB/P7	71917 DB/P7	71917 DB
85	120	18	22.5	27.5	13000	20000	0.54	71917 W	71917 FB/P7	71917 FB/P7	71917 W
85	130	22	63.7	62	10000	17000	0.74	7017 A5P4	7017 ACD/HCP4A	7017 E.P4S	7017 A5P4
85	130	22	63.7	62	8500	14000	0.89	7017 A5P4	7017 ACD/P4A	7017 E.P4S	7017 A5P4
85	130	22	28.1	21.6	14000	22000	0.81	7017 A5P4	7017 ACE/HCP4A	7017 E.P4S	7017 A5P4
85	130	22	28.1	21.6	13000	20000	0.89	7017 A5P4	7017 ACE/P4A	7017 E.P4S	7017 A5P4
85	130	22	67.6	65.5	12000	19000	0.74	7017 CP4	7017 CD/HCP4A	7017 C.P4S	7017 CP4
85	130	22	67.6	65.5	9500	16000	0.89	7017 CP4	7017 CD/P4A	7017 C.P4S	7017 CP4
85	130	22	29.6	22.8	16000	26000	0.81	7017 CP4	7017 CE/HCP4A	7017 C.P4S	7017 CP4
85	130	22	29.6	22.8	14000	22000	0.89	7017 CP4	7017 CE/P4A	7017 C.P4S	7017 CP4
85	130	22	34.5	39	11000	18000	0.9	7017 DB	7017 DB/P7	7017 DB/P7	7017 DB
85	130	22	35.8	40.5	13000	20000	0.9	7017 W	7017 FB/P7	7017 FB/P7	7017 W
85	150	28	95.6	85	8000	13000	1.8	7217 A5P4	7217 ACD/P4A	7217 E.P4S	7217 A5P4
85	150	28	99.5	88	9000	15000	1.8	7217 CP4	7217 CD/P4A	7217 C.P4S	7217 CP4
90	115	13	20.3	25	12000	18000	0.251	71818 A5P4	71818 ACD/HCP4	71818 E.P4S	71818 A5P4
90	115	13	20.3	25	10000	15000	0.279	71818 A5P4	71818 ACD/P4	71818 E.P4S	71818 A5P4
90	115	13	21.6	26.5	13000	20000	0.251	71818 CP4	71818 CD/HCP4A	71818 C.P4S	71818 CP4
90	115	13	21.6	26.5	11000	17000	0.279	71818 CP4	71818 CD/P4A	71818 C.P4S	71818 CP4

HIGH PRECISION BEARINGS
Angular Contact Ball Bearings

Table 132
Bore Diameter 90mm – 100mm



Principal Dimensions			Basic Load Ratings		Max. Speed		Mass	Designations			
d	D	B	Dynamic C	Static C ₀	Grease	Oil-Air		Local	SKF	FAG	NSK
mm			kN		r/min						
90	125	18	44.2	48	10000	17000	0.47	71918 A5P4	71918 ACD/HCP4A	71918 E.P4S	71918 A5P4
90	125	18	44.2	48	8500	14000	0.55	71918 A5P4	71918 ACD/P4A	71918 E.P4S	71918 A5P4
90	125	18	28.1	21.6	14000	22000	0.46	71918 A5P4	71918 ACE/HCP4A	71918 E.P4S	71918 A5P4
90	125	18	28.1	21.6	13000	20000	0.54	71918 A5P4	71918 ACE/P4A	71918 E.P4S	71918 A5P4
90	125	18	47.5	51	13000	19000	0.47	71918 CP4	71918 CD/HCP4A	71918 C.P4S	71918 CP4
90	125	18	47.5	51	9500	16000	0.55	71918 CP4	71918 CD/P4A	71918 C.P4S	71918 CP4
90	125	18	29.6	22.8	16000	26000	0.46	71918 CP4	71918 CE/HCP4A	71918 C.P4S	71918 CP4
90	125	18	29.6	22.8	14000	22000	0.54	71918 CP4	71918 CE/P4A	71918 C.P4S	71918 CP4
90	125	18	22.5	29	11000	18000	0.57	71918 DB	71918 DB/P7	71918 DB/P7	71918 DB
90	125	18	23.4	30.5	13000	20000	0.57	71918 W	71918 FB/P7	71918 FB/P7	71918 W
90	140	24	74.1	72	9500	16000	0.95	7018 A5P4	7018 ACD/HCP4A	7018 E.P4S	7018 A5P4
90	140	24	74.1	72	8000	13000	1.15	7018 A5P4	7018 ACD/P4A	7018 E.P4S	7018 A5P4
90	140	24	35.1	26.5	13000	22000	1.03	7018 A5P4	7018 ACE/HCP4A	7018 E.P4S	7018 A5P4
90	140	24	35.1	26.5	12000	19000	1.15	7018 A5P4	7018 ACE/P4A	7018 E.P4S	7018 A5P4
90	140	24	79.3	76.5	11000	18000	0.95	7018 CP4	7018 CD/HCP4A	7018 C.P4S	7018 CP4
90	140	24	79.3	76.5	9000	15000	1.15	7018 CP4	7018 CD/P4A	7018 C.P4S	7018 CP4
90	140	24	37.1	28	15000	24000	1.03	7018 CP4	7018 CE/HCP4A	7018 C.P4S	7018 CP4
90	140	24	37.1	28	13000	20000	1.15	7018 CP4	7018 CE/P4A	7018 C.P4S	7018 CP4
90	140	24	37.1	40.5	11000	17000	1.2	7018 DB	7018 DB/P7	7018 DB/P7	7018 DB
90	140	24	39	42.5	12000	18000	1.2	7018 W	7018 FB/P7	7018 FB/P7	7018 W
90	160	30	121	106	7500	12000	2.25	7218 A5P4	7218 ACD/P4A	7218 E.P4S	7218 A5P4
90	160	30	127	112	8500	14000	2.25	7218 CP4	7218 CD/P4A	7218 C.P4S	7218 CP4
95	120	13	20.8	25.5	11000	17000	0.263	71819 A5P4	71819 ACD/HCP4	71819 E.P4S	71819 A5P4
95	120	13	20.8	25.5	9500	14000	0.292	71819 A5P4	71819 ACD/P4	71819 E.P4S	71819 A5P4
95	120	13	22.1	27.5	12000	19000	0.263	71819 CP4	71819 CD/HCP4A	71819 C.P4S	71819 CP4
95	120	13	22.1	27.5	10000	16000	0.292	71819 CP4	71819 CD/P4A	71819 C.P4S	71819 CP4
95	130	18	46.2	52	9500	16000	0.49	71919 A5P4	71919 ACD/HCP4A	71919 E.P4S	71919 A5P4
95	130	18	46.2	52	8500	14000	0.58	71919 A5P4	71919 ACD/P4A	71919 E.P4S	71919 A5P4
95	130	18	29.6	23.2	14000	22000	0.48	71919 A5P4	71919 ACE/HCP4A	71919 E.P4S	71919 A5P4
95	130	18	29.6	23.2	12000	19000	0.57	71919 A5P4	71919 ACE/P4A	71919 E.P4S	71919 A5P4
95	130	18	49.4	55	12000	18000	0.49	71919 CP4	71919 CD/HCP4A	71919 C.P4S	71919 CP4
95	130	18	49.4	55	9000	15000	0.58	71919 CP4	71919 CD/P4A	71919 C.P4S	71919 CP4
95	130	18	31.2	24.5	15000	24000	0.48	71919 CP4	71919 CE/HCP4A	71919 C.P4S	71919 CP4
95	130	18	31.2	24.5	14000	22000	0.57	71919 CP4	71919 CE/P4A	71919 C.P4S	71919 CP4
95	130	18	23.4	31.5	11000	17000	0.6	71919 DB	71919 DB/P7	71919 DB/P7	71919 DB
95	130	18	24.7	32.5	12000	19000	0.6	71919 W	71919 FB/P7	71919 FB/P7	71919 W
95	145	24	76.1	76.5	9000	15000	1	7019 A5P4	7019 ACD/HCP4A	7019 E.P4S	7019 A5P4
95	145	24	76.1	76.5	8000	13000	1.2	7019 A5P4	7019 ACD/P4A	7019 E.P4S	7019 A5P4
95	145	24	35.8	28	13000	20000	1.07	7019 A5P4	7019 ACE/HCP4A	7019 E.P4S	7019 A5P4
95	145	24	35.8	28	11000	18000	1.12	7019 A5P4	7019 ACE/P4A	7019 E.P4S	7019 A5P4
95	145	24	81.9	80	10000	17000	1	7019 CP4	7019 CD/HCP4A	7019 C.P4S	7019 CP4
95	145	24	81.9	80	8500	14000	1.2	7019 CP4	7019 CD/P4A	7019 C.P4S	7019 CP4
95	145	24	37.7	29	14000	22000	1.07	7019 CP4	7019 CE/HCP4A	7019 C.P4S	7019 CP4
95	145	24	37.7	29	13000	20000	1.12	7019 CP4	7019 CE/P4A	7019 C.P4S	7019 CP4
95	145	24	37.1	42.5	10000	16000	1.23	7019 DB	7019 DB/P7	7019 DB/P7	7019 DB
95	145	24	39	44	11000	18000	1.23	7019 W	7019 FB/P7	7019 FB/P7	7019 W
95	170	32	133	114	7500	12000	2.7	7219 A5P4	7219 ACD/P4A	7219 E.P4S	7219 A5P4
95	170	32	138	120	8000	13000	2.7	7219 CP4	7219 CD/P4A	7219 C.P4S	7219 CP4
100	125	13	21.2	27.5	10000	15000	0.279	71820 A5P4	71820 ACD/HCP4	71820 E.P4S	71820 A5P4
100	125	13	21.2	27.5	8500	13000	0.31	71820 A5P4	71820 ACD/P4	71820 E.P4S	71820 A5P4



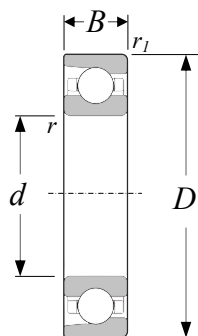
HIGH PRECISION BEARINGS
Angular Contact Ball Bearings

Table 133
Bore Diameter 100mm – 110mm

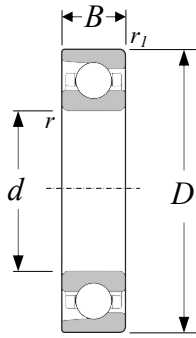
Principal Dimensions			Basic Load Ratings		Max. Speed		Mass	Designations			
d	D	B	Dynamic	Static	Grease	Oil-Air					
mm			C	C ₀	r/min		kg	Local	SKF	FAG	NSK
100	125	13	22.5	29	11000	17000	0.279	71820 CP4	71820 CD/HCP4A	71820 C.P4S	71820 CP4
100	125	13	22.5	29	9000	14000	0.31	71820 CP4	71820 CD/P4A	71820 C.P4S	71820 CP4
100	140	20	57.2	63	9000	15000	0.66	71920 A5P4	71920 ACD/HCP4A	71920 E.P4S	71920 A5P4
100	140	20	57.2	63	8000	13000	0.8	71920 A5P4	71920 ACD/P4A	71920 E.P4S	71920 A5P4
100	140	20	35.8	28	13000	20000	0.65	71920 A5P4	71920 ACE/HCP4A	71920 E.P4S	71920 A5P4
100	140	20	35.8	28	11000	18000	0.77	71920 A5P4	71920 ACE/P4A	71920 E.P4S	71920 A5P4
100	140	20	60.5	65.5	11000	17000	0.66	71920 CP4	71920 CD/HCP4A	71920 C.P4S	71920 CP4
100	140	20	60.5	65.5	8500	14000	0.8	71920 CP4	71920 CD/P4A	71920 C.P4S	71920 CP4
100	140	20	37.7	29	14000	22000	0.65	71920 CP4	71920 CE/HCP4A	71920 C.P4S	71920 CP4
100	140	20	37.7	29	13000	20000	0.77	71920 CP4	71920 CE/P4A	71920 C.P4S	71920 CP4
100	140	20	30.2	38	10000	16000	0.79	71920 DB	71920 DB/P7	71920 DB/P7	71920 DB
100	140	20	31.9	40	11000	18000	0.79	71920 W	71920 FB/P7	71920 FB/P7	71920 W
100	150	24	79.3	80	9000	15000	1.05	7020 A5P4	7020 ACD/HCP4A	7020 E.P4S	7020 A5P4
100	150	24	79.3	80	7500	12000	1.25	7020 A5P4	7020 ACD/P4A	7020 E.P4S	7020 A5P4
100	150	24	36.4	29	12000	19000	1.12	7020 A5P4	7020 ACE/HCP4A	7020 E.P4S	7020 A5P4
100	150	24	36.4	29	11000	17000	1.25	7020 A5P4	7020 ACE/P4A	7020 E.P4S	7020 A5P4
100	150	24	83.2	85	9500	16000	1.05	7020 CP4	7020 CD/HCP4A	7020 C.P4S	7020 CP4
100	150	24	83.2	85	8500	14000	1.25	7020 CP4	7020 CD/P4A	7020 C.P4S	7020 CP4
100	150	24	39	30.5	14000	22000	1.12	7020 CP4	7020 CE/HCP4A	7020 C.P4S	7020 CP4
100	150	24	39	30.5	12000	19000	1.25	7020 CP4	7020 CE/P4A	7020 C.P4S	7020 CP4
100	150	24	37.7	44	9500	15000	1.28	7020 DB	7020 DB/P7	7020 DB/P7	7020 DB
100	150	24	39.7	46.5	11000	17000	1.28	7020 W	7020 FB/P7	7020 FB/P7	7020 W
100	180	34	148	129	7000	11000	3.25	7220 A5P4	7220 ACD/P4A	7220 E.P4S	7220 A5P4
100	180	34	156	137	7500	12000	3.25	7220 CP4	7220 CD/P4A	7220 C.P4S	7220 CP4
105	130	13	21.6	28.5	9500	15000	0.289	71821 A5P4	71821 ACD/HCP4	71821 E.P4S	71821 A5P4
105	130	13	21.6	28.5	8000	12000	0.32	71821 A5P4	71821 ACD/P4	71821 E.P4S	71821 A5P4
105	130	13	22.9	30	11000	16000	0.289	71821 CP4	71821 CD/HCP4A	71821 C.P4S	71821 CP4
105	130	13	22.9	30	9000	14000	0.32	71821 CP4	71821 CD/P4A	71821 C.P4S	71821 CP4
105	145	20	57.2	65.5	9000	15000	0.69	71921 A5P4	71921 ACD/HCP4A	71921 E.P4S	71921 A5P4
105	145	20	57.2	65.5	7500	12000	0.82	71921 A5P4	71921 ACD/P4A	71921 E.P4S	71921 A5P4
105	145	20	61.8	69.5	10000	16000	0.69	71921 CP4	71921 CD/HCP4A	71921 C.P4S	71921 CP4
105	145	20	61.8	69.5	8500	14000	0.82	71921 CP4	71921 CD/P4A	71921 C.P4S	71921 CP4
105	160	26	90.4	93	7500	12000	1.6	7021 A5P4	7021 ACD/P4A	7021 E.P4S	7021 A5P4
105	160	26	95.6	96.5	8000	13000	1.6	7021 CP4	7021 CD/P4A	7021 C.P4S	7021 CP4
105	190	36	163	146	6700	10000	3.85	7221 A5P4	7221 ACD/P4A	7221 E.P4S	7221 A5P4
105	190	36	172	153	7500	12000	3.85	7221 CP4	7221 CD/P4A	7221 C.P4S	7221 CP4
110	140	16	30.2	38	9000	14000	0.453	71822 A5P4	71822 ACD/HCP4	71822 E.P4S	71822 A5P4
110	140	16	30.2	38	7500	12000	0.505	71822 A5P4	71822 ACD/P4	71822 E.P4S	71822 A5P4
110	140	16	31.9	40.5	10000	15000	0.453	71822 CP4	71822 CD/HCP4A	71822 C.P4S	71822 CP4
110	140	16	31.9	40.5	8000	13000	0.505	71822 CP4	71822 CD/P4A	71822 C.P4S	71822 CP4
110	150	20	58.5	68	8500	14000	0.72	71922 A5P4	71922 ACD/HCP4A	71922 E.P4S	71922 A5P4
110	150	20	58.5	68	7500	12000	0.86	71922 A5P4	71922 ACD/P4A	71922 E.P4S	71922 A5P4
110	150	20	37.1	30.5	12000	19000	0.71	71922 A5P4	71922 ACE/HCP4A	71922 E.P4S	71922 A5P4
110	150	20	37.1	30.5	10000	16000	0.84	71922 A5P4	71922 ACE/P4A	71922 E.P4S	71922 A5P4
110	150	20	62.4	72	10000	16000	0.72	71922 CP4	71922 CD/HCP4A	71922 C.P4S	71922 CP4
110	150	20	62.4	72	8000	13000	0.86	71922 CP4	71922 CD/P4A	71922 C.P4S	71922 CP4
110	150	20	39.7	32	13000	20000	0.71	71922 CP4	71922 CE/HCP4A	71922 C.P4S	71922 CP4
110	150	20	39.7	32	12000	18000	0.84	71922 CP4	71922 CE/P4A	71922 C.P4S	71922 CP4
110	150	20	32.5	43	9500	15000	0.85	71922 DB	71922 DB/P7	71922 DB/P7	71922 DB
110	150	20	33.8	45	10000	16000	0.85	71922 W	71922 FB/P7	71922 FB/P7	71922 W

HIGH PRECISION BEARINGS
Angular Contact Ball Bearings

Table 134
Bore Diameter 110mm – 150mm



Principal Dimensions			Basic Load Ratings		Max. Speed		Mass	Designations			
d	D	B	Dynamic C	Static C ₀	Grease	Oil-Air		Local	SKF	FAG	NSK
mm			kN		r/min						
110	170	28	104	104	7000	11000	1.95	7022 A5P4	7022 ACD/P4A	7022 E.P4S	7022 A5P4
110	170	28	111	108	7500	12000	1.95	7022 CP4	7022 CD/P4A	7022 C.P4S	7022 CP4
110	170	28	46.8	60	8500	14000	2	7022 DB	7022 DB/P7	7022 DB/P7	7022 DB
110	170	28	49.4	62	9500	15000	2	7022 W	7022 FB/P7	7022 FB/P7	7022 W
110	200	38	168	160	6700	10000	4.55	7222 A5P4	7222 ACD/P4A	7222 E.P4S	7222 A5P4
110	200	38	178	166	7000	11000	4.55	7222 CP4	7222 CD/P4A	7222 C.P4S	7222 CP4
120	150	16	31.2	42.5	8000	13000	0.493	71824 A5P4	71824 ACD/HCP4	71824 E.P4S	71824 A5P4
120	150	16	31.2	42.5	6700	11000	0.55	71824 A5P4	71824 ACD/P4	71824 E.P4S	71824 A5P4
120	150	16	33.2	45	9000	14000	0.493	71824 CP4	71824 CD/HCP4A	71824 C.P4S	71824 CP4
120	150	16	33.2	45	7500	12000	0.55	71824 CP4	71824 CD/P4A	71824 C.P4S	71824 CP4
120	165	22	72.8	86.5	8000	13000	0.97	71924 A5P4	71924 ACD/HCP4A	71924 E.P4S	71924 A5P4
120	165	22	72.8	86.5	7000	11000	1.15	71924 A5P4	71924 ACD/P4A	71924 E.P4S	71924 A5P4
120	165	22	46.2	38	11000	17000	0.96	71924 A5P4	71924 ACE/HCP4A	71924 E.P4S	71924 A5P4
120	165	22	46.2	38	9500	15000	1.15	71924 A5P4	71924 ACE/P4A	71924 E.P4S	71924 A5P4
120	165	22	78	91.5	9000	14000	0.97	71924 CP4	71924 CD/HCP4A	71924 C.P4S	71924 CP4
120	165	22	78	91.5	7500	12000	1.15	71924 CP4	71924 CD/P4A	71924 C.P4S	71924 CP4
120	165	22	49.4	40.5	12000	19000	0.96	71924 CP4	71924 CE/HCP4A	71924 C.P4S	71924 CP4
120	165	22	49.4	40.5	11000	16000	1.15	71924 CP4	71924 CE/P4A	71924 C.P4S	71924 CP4
120	165	22	36.4	49	8500	13000	1.17	71924 DB	71924 DB/P7	71924 DB/P7	71924 DB
120	165	22	37.7	51	9500	15000	1.17	71924 W	71924 FB/P7	71924 FB/P7	71924 W
120	180	28	111	116	6700	10000	2.1	7024 A5P4	7024 ACD/P4A	7024 E.P4S	7024 A5P4
120	180	28	114	122	7000	11000	2.1	7024 CP4	7024 CD/P4A	7024 C.P4S	7024 CP4
120	180	28	49.4	65.5	8000	13000	2.15	7024 DB	7024 DB/P7	7024 DB/P7	7024 DB
120	180	28	52	68	9000	14000	2.15	7024 W	7024 FB/P7	7024 FB/P7	7024 W
120	215	40	190	183	6000	9000	5.4	7224 A5P4	7224 ACD/P4A	7224 E.P4S	7224 A5P4
120	215	40	199	193	6700	10000	5.4	7224 CP4	7224 CD/P4A	7224 C.P4S	7224 CP4
130	165	18	36.4	50	7500	12000	0.696	71826 A5P4	71826 ACD/HCP4	71826 E.P4S	71826 A5P4
130	165	18	36.4	50	6300	9500	0.77	71826 A5P4	71826 ACD/P4	71826 E.P4S	71826 A5P4
130	165	18	39	53	8500	13000	0.696	71826 CP4	71826 CD/HCP4A	71826 C.P4S	71826 CP4
130	165	18	39	53	7000	11000	0.77	71826 CP4	71826 CD/P4A	71826 C.P4S	71826 CP4
130	180	24	87.1	102	7500	12000	1.3	71926 A5P4	71926 ACD/HCP4A	71926 E.P4S	71926 A5P4
130	180	24	87.1	102	6700	10000	1.55	71926 A5P4	71926 ACD/P4A	71926 E.P4S	71926 A5P4
130	180	24	92.3	108	8500	13000	1.3	71926 CP4	71926 CD/HCP4A	71926 C.P4S	71926 CP4
130	180	24	92.3	108	7000	11000	1.55	71926 CP4	71926 CD/P4A	71926 C.P4S	71926 CP4
130	200	33	140	150	6000	9000	3.2	7026 A5P4	7026 ACD/P4A	7026 E.P4S	7026 A5P4
130	200	33	148	156	6700	10000	3.2	7026 CP4	7026 CD/P4A	7026 C.P4S	7026 CP4
140	175	18	42.3	58.5	7000	11000	0.705	71828 A5P4	71828 ACD/HCP4	71828 E.P4S	71828 A5P4
140	175	18	42.3	58.5	6000	9000	0.8	71828 A5P4	71828 ACD/P4	71828 E.P4S	71828 A5P4
140	175	18	44.9	62	8000	12000	0.705	71828 CP4	71828 CD/HCP4A	71828 C.P4S	71828 CP4
140	175	18	44.9	62	6300	10000	0.8	71828 CP4	71828 CD/P4A	71828 C.P4S	71828 CP4
140	190	24	90.4	110	7000	11000	1.35	71928 A5P4	71928 ACD/HCP4A	71928 E.P4S	71928 A5P4
140	190	24	90.4	110	6000	9000	1.65	71928 A5P4	71928 ACD/P4A	71928 E.P4S	71928 A5P4
140	190	24	95.6	116	8000	12000	1.35	71928 CP4	71928 CD/HCP4A	71928 C.P4S	71928 CP4
140	190	24	95.6	116	6700	10000	1.65	71928 CP4	71928 CD/P4A	71928 C.P4S	71928 CP4
140	210	33	146	156	5600	8500	3.4	7028 A5P4	7028 ACD/P4A	7028 E.P4S	7028 A5P4
140	210	33	153	166	6700	10000	3.4	7028 CP4	7028 CD/P4A	7028 C.P4S	7028 CP4
150	190	20	48.8	68	6300	10000	0.982	71830 A5P4	71830 ACD/HCP4	71830 E.P4S	71830 A5P4
150	190	20	48.8	68	5300	8500	1.1	71830 A5P4	71830 ACD/P4	71830 E.P4S	71830 A5P4
150	190	20	52	72	7000	11000	0.982	71830 CP4	71830 CD/HCP4A	71830 C.P4S	71830 CP4
150	190	20	52	72	6000	9000	1.1	71830 CP4	71830 CD/P4A	71830 C.P4S	71830 CP4



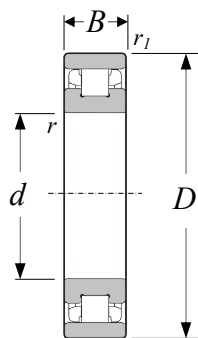
HIGH PRECISION BEARINGS
Angular Contact Ball Bearings

Table 135
Bore Diameter 150mm – 320mm

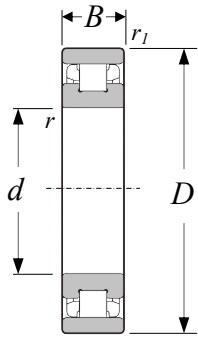
Principal Dimensions			Basic Load Ratings		Max. Speed		Mass	Designations			
d	D	B	Dynamic C	Static C ₀	Grease	Oil-Air		Local	SKF	FAG	NSK
mm			kN		r/min	kg					
150	210	28	119	140	5600	8500	2.55	71930 A5P4	71930 ACD/P4A	71930 E.P4S	71930 A5P4
150	210	28	125	146	6300	9500	2.55	71930 CP4	71930 CD/P4A	71930 C.P4S	71930 CP4
150	225	35	163	180	5300	8000	4.15	7030 A5P4	7030 ACD/P4A	7030 E.P4S	7030 A5P4
150	225	35	172	190	6000	9000	4.15	7030 CP4	7030 CD/P4A	7030 C.P4S	7030 CP4
160	200	20	50.7	75	6000	9500	1,105	71832 A5P4	71832 ACD/HCP4A	71832 E.P4S	71832 A5P4
160	200	20	50.7	75	5000	8000	1,233	71832 A5P4	71832 ACD/P4	71832 E.P4S	71832 A5P4
160	200	20	54	78	6700	10000	1,105	71832 CP4	71832 CD/HCP4A	71832 C.P4S	71832 CP4
160	200	20	54	78	5600	8500	1,233	71832 CP4	71832 CD/P4A	71832 C.P4S	71832 CP4
160	220	28	124	153	5300	8000	2.7	71932 A5P4	71932 ACD/P4A	71932 E.P4S	71932 A5P4
160	220	28	130	160	6000	9000	2.7	71932 CP4	71932 CD/P4A	71932 C.P4S	71932 CP4
160	240	38	182	204	5000	7500	5.1	7032 A5P4	7032 ACD/P4A	7032 E.P4S	7032 A5P4
160	240	38	195	216	5600	8500	5.1	7032 CP4	7032 CD/P4A	7032 C.P4S	7032 CP4
170	230	28	124	160	5000	7500	2.85	71934 A5P4	71934 ACD/P4A	71934 E.P4S	71934 A5P4
170	230	28	133	166	5600	8500	2.85	71934 CP4	71934 CD/P4A	71934 C.P4S	71934 CP4
170	260	42	199	232	4800	7000	6.85	7034 A5P4	7034 ACD/P4A	7034 E.P4S	7034 A5P4
170	260	42	212	245	5300	8000	6.85	7034 CP4	7034 CD/P4A	7034 C.P4S	7034 CP4
180	250	33	159	200	4800	7000	4.2	71936 A5P4	71936 ACD/P4A	71936 E.P4S	71936 A5P4
180	250	33	168	212	5300	8000	4.2	71936 CP4	71936 CD/P4A	71936 C.P4S	71936 CP4
180	280	46	229	275	4300	6300	8.9	7036 A5P4	7036 ACD/P4A	7036 E.P4S	7036 A5P4
180	280	46	242	290	5000	7500	8.9	7036 CP4	7036 CD/P4A	7036 C.P4S	7036 CP4
190	260	33	163	208	4500	6700	4.35	71938 A5P4	71938 ACD/P4A	71938 E.P4S	71938 A5P4
190	260	33	172	220	5000	7500	4.35	71938 CP4	71938 CD/P4A	71938 C.P4S	71938 CP4
190	290	46	234	290	4300	6300	9.35	7038 A5P4	7038 ACD/P4A	7038 E.P4S	7038 A5P4
190	290	46	247	300	4800	7000	9.35	7038 CP4	7038 CD/P4A	7038 C.P4S	7038 CP4
200	280	38	199	250	4300	6300	6.1	71940 A5P4	71940 ACD/P4A	71940 E.P4S	71940 A5P4
200	280	38	208	265	4800	7000	6.1	71940 CP4	71940 CD/P4A	71940 C.P4S	71940 CP4
200	310	51	281	365	4000	6000	12	7040 A5P4	7040 ACD/P4A	7040 E.P4S	7040 A5P4
200	310	51	296	390	4500	6700	12	7040 CP4	7040 CD/P4A	7040 C.P4S	7040 CP4
220	300	38	208	285	3800	5600	6.6	71944 A5P4	71944 ACD/P4A	71944 E.P4S	71944 A5P4
220	300	38	221	300	4300	6300	6.6	71944 CP4	71944 CD/P4A	71944 C.P4S	71944 CP4
220	340	56	338	455	3600	5300	16	7044 A5P4	7044 ACD/P4A	7044 E.P4S	7044 A5P4
220	340	56	338	455	4000	6000	16	7044 CP4	7044 CD/P4A	7044 C.P4S	7044 CP4
240	320	38	212	300	3200	4800	8.5	71948 A5P4	71948 ACD/P4A	71948 E.P4S	71948 A5P4
240	320	38	225	310	3800	5600	8.5	71948 CP4	71948 CD/P4A	71948 C.P4S	71948 CP4
240	360	56	325	465	3200	4800	17	7048 A5P4	7048 ACD/P4A	7048 E.P4S	7048 A5P4
240	360	56	345	490	3800	5600	17	7048 CP4	7048 CD/P4A	7048 C.P4S	7048 CP4
260	360	46	265	400	2800	4300	12.2	71952 A5P4	71952 ACD/P4A	71952 E.P4S	71952 A5P4
260	360	46	281	425	3400	5000	12.2	71952 CP4	71952 CD/P4A	71952 C.P4S	71952 CP4
280	380	46	276	430	2600	4000	12.9	71956 A5P4	71956 ACD/P4A	71956 E.P4S	71956 A5P4
280	380	46	291	455	3200	4800	12.9	71956 CP4	71956 CD/P4A	71956 C.P4S	71956 CP4
300	420	56	351	560	2200	3400	20.5	71960 A5P4	71960 ACD/P4A	71960 E.P4S	71960 A5P4
300	420	56	371	600	2400	3600	20.5	71960 CP4	71960 CD/P4A	71960 C.P4S	71960 CP4
320	440	56	351	585	2000	3200	21.5	71964 A5P4	71964 ACD/P4A	71964 E.P4S	71964 A5P4
320	440	56	377	620	2200	3400	21.5	71964 CP4	71964 CD/P4A	71964 C.P4S	71964 CP4

HIGH PRECISION BEARINGS
Cylindrical Roller Bearings, Single Row

Table 136
Bore Diameter 40mm – 100mm



Principal Dimensions			Basic Load Ratings		Max. Speed		Mass	Designations			
d	D	B	C	C ₀	Grease	Oil-Air		Local	SKF	FAG	NSK
mm			kN		r/min		kg				
40	68	15	25.1	28	18000	20000	0.17	N1008 RXTRKCCOP4	N1008 KTN/HC5SP	N1008 K.M1.SP	N1008 RXTRKCCOP4
40	68	15	25.1	28	15000	17000	0.19	N1008 RXTRKCCOP4	N1008 KTN/SP	N1008 K.M1.SP	N1008 RXTRKCCOP4
40	68	15	24.2	26.5	26000	36000	0.17	N1008 RXTRKCCOP4	N1008 KTNHA/HC5SP	N1008 K.M1.SP	N1008 RXTRKCCOP4
40	68	15	24.2	26.5	22000	32000	0.19	N1008 RXTRKCCOP4	N1008 KTNHA/SP	N1008 K.M1.SP	N1008 RXTRKCCOP4
45	75	16	29.2	32.5	16000	18000	0.22	N1009 RXTRKCCOP4	N1009 KTN/HC5SP	N1009 K.M1.SP	N1009 RXTRKCCOP4
45	75	16	29.2	32.5	13000	15000	0.24	N1009 RXTRKCCOP4	N1009 KTN/SP	N1009 K.M1.SP	N1009 RXTRKCCOP4
45	75	16	28.1	31	22000	32000	0.21	N1009 RXTRKCCOP4	N1009 KTNHA/HC5SP	N1009 K.M1.SP	N1009 RXTRKCCOP4
45	75	16	28.1	31	20000	28000	0.24	N1009 RXTRKCCOP4	N1009 KTNHA/SP	N1009 K.M1.SP	N1009 RXTRKCCOP4
50	80	16	30.8	36.5	15000	17000	0.23	N1010 RXTRKCCOP4	N1010 KTN/HC5SP	N1010 K.M1.SP	N1010 RXTRKCCOP4
50	80	16	30.8	36.5	12000	14000	0.26	N1010 RXTRKCCOP4	N1010 KTN/SP	N1010 K.M1.SP	N1010 RXTRKCCOP4
50	80	16	29.7	34.5	20000	28000	0.23	N1010 RXTRKCCOP4	N1010 KTNHA/HC5SP	N1010 K.M1.SP	N1010 RXTRKCCOP4
50	80	16	29.7	34.5	19000	26000	0.26	N1010 RXTRKCCOP4	N1010 KTNHA/SP	N1010 K.M1.SP	N1010 RXTRKCCOP4
55	90	18	40.2	48	13000	15000	0.35	N1011 RXTRKCCOP4	N1011 KTN/HC5SP	N1011 K.M1.SP	N1011 RXTRKCCOP4
55	90	18	40.2	48	11000	13000	0.39	N1011 RXTRKCCOP4	N1011 KTN/SP	N1011 K.M1.SP	N1011 RXTRKCCOP4
55	90	18	39.1	46.5	19000	26000	0.35	N1011 RXTRKCCOP4	N1011 KTNHA/HC5SP	N1011 K.M1.SP	N1011 RXTRKCCOP4
55	90	18	39.1	46.5	17000	24000	0.39	N1011 RXTRKCCOP4	N1011 KTNHA/SP	N1011 K.M1.SP	N1011 RXTRKCCOP4
60	95	18	42.9	53	12000	14000	0.37	N1012 RXTRKCCOP4	N1012 KTN/HC5SP	N1012 K.M1.SP	N1012 RXTRKCCOP4
60	95	18	42.9	53	10000	12000	0.42	N1012 RXTRKCCOP4	N1012 KTN/SP	N1012 K.M1.SP	N1012 RXTRKCCOP4
60	95	18	41.3	51	18000	24000	0.37	N1012 RXTRKCCOP4	N1012 KTNHA/HC5SP	N1012 K.M1.SP	N1012 RXTRKCCOP4
60	95	18	41.3	51	16000	22000	0.42	N1012 RXTRKCCOP4	N1012 KTNHA/SP	N1012 K.M1.SP	N1012 RXTRKCCOP4
65	100	18	44.6	58.5	11000	13000	0.39	N1013 RXTRKCCOP4	N1013 KTN/HC5SP	N1013 K.M1.SP	N1013 RXTRKCCOP4
65	100	18	44.6	58.5	9500	11000	0.44	N1013 RXTRKCCOP4	N1013 KTN/SP	N1013 K.M1.SP	N1013 RXTRKCCOP4
65	100	18	44	56	17000	22000	0.39	N1013 RXTRKCCOP4	N1013 KTNHA/HC5SP	N1013 K.M1.SP	N1013 RXTRKCCOP4
65	100	18	44	56	15000	20000	0.44	N1013 RXTRKCCOP4	N1013 KTNHA/SP	N1013 K.M1.SP	N1013 RXTRKCCOP4
70	110	20	57.2	75	10000	12000	0.55	N1014 RXTRKCCOP4	N1014 KTN/HC5SP	N1014 K.M1.SP	N1014 RXTRKCCOP4
70	110	20	57.2	75	9000	10000	0.62	N1014 RXTRKCCOP4	N1014 KTN/SP	N1014 K.M1.SP	N1014 RXTRKCCOP4
70	110	20	55	72	15000	20000	0.55	N1014 RXTRKCCOP4	N1014 KTNHA/HC5SP	N1014 K.M1.SP	N1014 RXTRKCCOP4
70	110	20	55	72	13000	19000	0.62	N1014 RXTRKCCOP4	N1014 KTNHA/SP	N1014 K.M1.SP	N1014 RXTRKCCOP4
75	115	20	56.1	75	9500	11000	0.57	N1015 RXTRKCCOP4	N1015 KTN/HC5SP	N1015 K.M1.SP	N1015 RXTRKCCOP4
75	115	20	56.1	75	8500	9500	0.65	N1015 RXTRKCCOP4	N1015 KTN/SP	N1015 K.M1.SP	N1015 RXTRKCCOP4
75	115	20	55	72	14000	20000	0.57	N1015 RXTRKCCOP4	N1015 KTNHA/HC5SP	N1015 K.M1.SP	N1015 RXTRKCCOP4
75	115	20	55	72	13000	18000	0.65	N1015 RXTRKCCOP4	N1015 KTNHA/SP	N1015 K.M1.SP	N1015 RXTRKCCOP4
80	125	22	69.3	93	9000	10000	0.79	N1016 RXTRKCCOP4	N1016 KTN/HC5SP	N1016 K.M1.SP	N1016 RXTRKCCOP4
80	125	22	69.3	93	8000	9000	0.89	N1016 RXTRKCCOP4	N1016 KTN/SP	N1016 K.M1.SP	N1016 RXTRKCCOP4
80	125	22	67.1	90	13000	18000	0.79	N1016 RXTRKCCOP4	N1016 KTNHA/HC5SP	N1016 K.M1.SP	N1016 RXTRKCCOP4
80	125	22	67.1	90	12000	16000	0.88	N1016 RXTRKCCOP4	N1016 KTNHA/SP	N1016 K.M1.SP	N1016 RXTRKCCOP4
85	130	22	73.7	102	9000	10000	0.8	N1017 RXTRKCCOP4	N1017 KTN9/HC5SP	N1017 K.M1.SP	N1017 RXTRKCCOP4
85	130	22	73.7	102	7500	8500	0.9	N1017 RXTRKCCOP4	N1017 KTN9/SP	N1017 K.M1.SP	N1017 RXTRKCCOP4
85	130	22	70.4	98	13000	17000	0.79	N1017 RXTRKCCOP4	N1017 KTNHA/HC5SP	N1017 K.M1.SP	N1017 RXTRKCCOP4
85	130	22	70.4	98	11000	16000	0.89	N1017 RXTRKCCOP4	N1017 KTNHA/SP	N1017 K.M1.SP	N1017 RXTRKCCOP4
90	140	24	79.2	108	8500	9500	1.08	N1018 RXTRKCCOP4	N1018 KTN9/HC5SP	N1018 K.M1.SP	N1018 RXTRKCCOP4
90	140	24	79.2	108	7000	8000	1.2	N1018 RXTRKCCOP4	N1018 KTN9/SP	N1018 K.M1.SP	N1018 RXTRKCCOP4
90	140	24	76.5	104	12000	16000	1.07	N1018 RXTRKCCOP4	N1018 KTNHA/HC5SP	N1018 K.M1.SP	N1018 RXTRKCCOP4
90	140	24	76.5	104	10000	14000	1.19	N1018 RXTRKCCOP4	N1018 KTNHA/SP	N1018 K.M1.SP	N1018 RXTRKCCOP4
95	145	24	84.2	116	8000	9000	1.12	N1019 RXTRKCCOP4	N1019 KTN9/HC5SP	N1019 K.M1.SP	N1019 RXTRKCCOP4
95	145	24	84.2	116	6700	7500	1.25	N1019 RXTRKCCOP4	N1019 KTN9/SP	N1019 K.M1.SP	N1019 RXTRKCCOP4
95	145	24	80.9	112	11000	15000	1.12	N1019 RXTRKCCOP4	N1019 KTNHA/HC5SP	N1019 K.M1.SP	N1019 RXTRKCCOP4
95	145	24	80.9	112	10000	14000	1.25	N1019 RXTRKCCOP4	N1019 KTNHA/SP	N1019 K.M1.SP	N1019 RXTRKCCOP4
100	150	24	88	125	7500	8500	1.17	N1020 RXTRKCCOP4	N1020 KTN9/HC5SP	N1020 K.M1.SP	N1020 RXTRKCCOP4
100	150	24	88	125	6700	7500	1.31	N1020 RXTRKCCOP4	N1020 KTN9/SP	N1020 K.M1.SP	N1020 RXTRKCCOP4



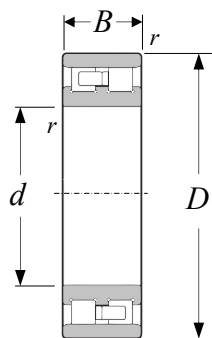
HIGH PRECISION BEARINGS
Cylindrical Roller Bearings, Single Row

Table 137
Bore Diameter 100mm – 120mm

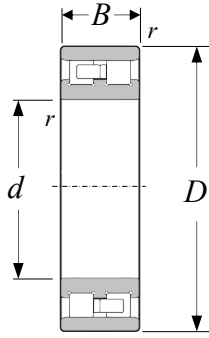
Principal Dimensions			Basic Load Ratings		Max. Speed		Mass	Designations			
d	D	B	Dynamic C	Static C ₀	Grease	Oil-Air		Local	SKF	FAG	NSK
mm			kN		r/min		kg				
100	150	24	85.8	120	11000	15000	1.17	N1020 RXTRKRCCOP4	N1020 KTNHA/HC5SP	N1020 K.M1.SP	N1020 RXTRKRCCOP4
100	150	24	85.8	120	9500	13000	1.31	N1020 RXTRKRCCOP4	N1020 KTNHA/SP	N1020 K.M1.SP	N1020 RXTRKRCCOP4
105	160	26	110	153	7000	8000	1.44	N1021 RXTRKRCCOP4	N1021 KTN9/HC5SP	N1021 K.M1.SP	N1021 RXTRKRCCOP4
105	160	26	110	153	6300	7000	1.65	N1021 RXTRKRCCOP4	N1021 KTN9/SP	N1021 K.M1.SP	N1021 RXTRKRCCOP4
105	160	26	108	146	10000	14000	1.44	N1021 RXTRKRCCOP4	N1021 KTNHA/HC5SP	N1021 K.M1.SP	N1021 RXTRKRCCOP4
105	160	26	108	146	9000	13000	1.64	N1021 RXTRKRCCOP4	N1021 KTNHA/SP	N1021 K.M1.SP	N1021 RXTRKRCCOP4
110	170	28	128	180	6300	7000	1.79	N1022 RXTRKRCCOP4	N1022 KTN9/HC5SP	N1022 K.M1.SP	N1022 RXTRKRCCOP4
110	170	28	128	180	5600	6300	2.04	N1022 RXTRKRCCOP4	N1022 KTN9/SP	N1022 K.M1.SP	N1022 RXTRKRCCOP4
110	170	28	125	173	9500	13000	1.78	N1022 RXTRKRCCOP4	N1022 KTNHA/HC5SP	N1022 K.M1.SP	N1022 RXTRKRCCOP4
110	170	28	125	173	8500	12000	2.03	N1022 RXTRKRCCOP4	N1022 KTNHA/SP	N1022 K.M1.SP	N1022 RXTRKRCCOP4
120	180	28	134	196	9500	13000	1.92	N1024 RXTRKRCCOP4	N1024 KTN9/HC5SP	N1024 K.M1.SP	N1024 RXTRKRCCOP4
120	180	28	134	196	5300	6000	2.2	N1024 RXTRKRCCOP4	N1024 KTN9/SP	N1024 K.M1.SP	N1024 RXTRKRCCOP4
120	180	28	130	186	9000	12000	1.92	N1024 RXTRKRCCOP4	N1024 KTNHA/HC5SP	N1024 K.M1.SP	N1024 RXTRKRCCOP4
120	180	28	130	186	8000	11000	2.18	N1024 RXTRKRCCOP4	N1024 KTNHA/SP	N1024 K.M1.SP	N1024 RXTRKRCCOP4

HIGH PRECISION BEARINGS
Cylindrical Roller Bearings, Double Row

Table 138
Bore Diameter 25mm – 130mm



Principal Dimensions			Basic Load Ratings		Max. Speed		Mass	Designations			
d	D	B	C	C ₀	Grease	Oil-Air		Local	SKF	FAG	NSK
mm	mm	mm	kN		r/min	r/min	kg				
25	47	16	26	30	19000	22000	0.12	NN3005 MBP4	NN3005 /SP	NN3005 M.SP	NN3005 MBP4
25	47	16	26	30	19000	22000	0.12	NN3005 MBKRCCOP4	NN3005 K/SP	NN3005 SK.M.SP	NN3005 MBKRCCOP4
30	55	19	30.8	37.5	16000	18000	0.19	NN3006 TBKRCCOP4	NN3006 KTN/SP	NN3006 SK.M.SP	NN3006 TBKRCCOP4
30	55	19	30.8	37.5	16000	18000	0.19	NN3006 TBP4	NN3006 TN/SP	NN3006 M.SP	NN3006 TBP4
35	62	20	39.1	50	14000	16000	0.25	NN3007 MBP4	NN3007 /SP	NN3007 M.SP	NN3007 MBP4
35	62	20	39.1	50	14000	16000	0.25	NN3007 MBKRCCOP4	NN3007 K/SP	NN3007 SK.M.SP	NN3007 MBKRCCOP4
40	68	21	42.9	56	12000	14000	0.3	NN3008 TBKRCCOP4	NN3008 KTN/SP	NN3008 SK.M.SP	NN3008 TBKRCCOP4
40	68	21	42.9	56	12000	14000	0.3	NN3008 TBP4	NN3008 TN/SP	NN3008 M.SP	NN3008 TBP4
45	75	23	50.1	65.5	11000	13000	0.38	NN3009 TBKRCCOP4	NN3009 KTN/SP	NN3009 SK.M.SP	NN3009 TBKRCCOP4
45	75	23	50.1	65.5	11000	13000	0.38	NN3009 TBP4	NN3009 TN/SP	NN3009 M.SP	NN3009 TBP4
50	80	23	52.8	73.5	10000	12000	0.42	NN3010 TBKRCCOP4	NN3010 KTN/SP	NN3010 SK.M.SP	NN3010 TBKRCCOP4
50	80	23	52.8	73.5	10000	12000	0.42	NN3010 TBP4	NN3010 TN/SP	NN3010 M.SP	NN3010 TBP4
55	90	26	69.3	96.5	9500	11000	0.62	NN3011 TBKRCCOP4	NN3011 KTN/SP	NN3011 SK.M.SP	NN3011 TBKRCCOP4
55	90	26	69.3	96.5	9500	11000	0.62	NN3011 TBP4	NN3011 TN/SP	NN3011 M.SP	NN3011 TBP4
60	95	26	73.7	106	9000	10000	0.66	NN3012 TBKRCCOP4	NN3012 KTN/SP	NN3012 SK.M.SP	NN3012 TBKRCCOP4
60	95	26	73.7	106	9000	10000	0.66	NN3012 TBP4	NN3012 TN/SP	NN3012 M.SP	NN3012 TBP4
65	100	26	76.5	116	8500	9500	0.71	NN3013 TBKRCCOP4	NN3013 KTN/SP	NN3013 SK.M.SP	NN3013 TBKRCCOP4
65	100	26	76.5	116	8500	9500	0.71	NN3013 TBP4	NN3013 TN/SP	NN3013 M.SP	NN3013 TBP4
70	110	30	96.8	150	7500	8500	1	NN3014 TBKRCCOP4	NN3014 KTN/SP	NN3014 SK.M.SP	NN3014 TBKRCCOP4
70	110	30	96.8	150	7500	8500	1	NN3014 TBP4	NN3014 TN/SP	NN3014 M.SP	NN3014 TBP4
75	115	30	96.8	150	7000	8000	1.1	NN3015 TBKRCCOP4	NN3015 KTN/SP	NN3015 SK.M.SP	NN3015 TBKRCCOP4
75	115	30	96.8	150	7000	8000	1.1	NN3015 TBP4	NN3015 TN/SP	NN3015 M.SP	NN3015 TBP4
80	125	34	119	186	6700	7500	1.45	NN3016 TBKRCCOP4	NN3016 KTN/SP	NN3016 SK.M.SP	NN3016 TBKRCCOP4
80	125	34	119	186	6700	7500	1.45	NN3016 TBP4	NN3016 TN/SP	NN3016 M.SP	NN3016 TBP4
85	130	34	125	204	6300	7000	1.6	NN3017 TBKRCCOP4	NN3017 KTN9/SP	NN3017 SK.M.SP	NN3017 TBKRCCOP4
85	130	34	125	204	6300	7000	1.6	NN3017 TBP4	NN3017 TN9/SP	NN3017 M.SP	NN3017 TBP4
90	140	37	138	216	6000	6700	2	NN3018 TBKRCCOP4	NN3018 KTN9/SP	NN3018 SK.M.SP	NN3018 TBKRCCOP4
90	140	37	138	216	6000	6700	2	NN3018 TBP4	NN3018 TN9/SP	NN3018 M.SP	NN3018 TBP4
95	145	37	142	232	5600	6300	2.1	NN3019 TBKRCCOP4	NN3019 KTN9/SP	NN3019 SK.M.SP	NN3019 TBKRCCOP4
95	145	37	142	232	5600	6300	2.1	NN3019 TBP4	NN3019 TN9/SP	NN3019 M.SP	NN3019 TBP4
100	140	40	128	255	5600	6300	1.9	NNU4920 MBE44P4	NNU4920 B/SPW33	NNU4920 S.M.SP	NNU4920 MBE44P4
100	140	40	128	255	5600	6300	1.9	NNU4920 MBKRE44CCOP4	NNU4920 BK/SPW33	NNU4920 SK.M.SP	NNU4920 MBKRE44CCOP4
100	150	37	151	250	5300	6000	2.2	NN3020 TBKRCCOP4	NN3020 KTN9/SP	NN3020 SK.M.SP	NN3020 TBKRCCOP4
100	150	37	151	250	5300	6000	2.2	NN3020 TBP4	NN3020 TN9/SP	NN3020 M.SP	NN3020 TBP4
105	145	40	130	260	5300	6000	2	NNU4921 MBE44P4	NNU4921 B/SPW33	NNU4921 S.M.SP	NNU4921 MBE44P4
105	145	40	130	260	5300	6000	2	NNU4921 MBKRE44CCOP4	NNU4921 BK/SPW33	NNU4921 SK.M.SP	NNU4921 MBKRE44CCOP4
105	160	41	190	305	5000	5600	2.7	NN3021 TBKRCCOP4	NN3021 KTN9/SP	NN3021 SK.M.SP	NN3021 TBKRCCOP4
105	160	41	190	305	5000	5600	2.7	NN3021 TBP4	NN3021 TN9/SP	NN3021 M.SP	NN3021 TBP4
110	150	40	132	270	5300	6000	2.05	NNU4922 MBE44P4	NNU4922 B/SPW33	NNU4922 S.M.SP	NNU4922 MBE44P4
110	150	40	132	270	5300	6000	2.05	NNU4922 MBKRE44CCOP4	NNU4922 BK/SPW33	NNU4922 SK.M.SP	NNU4922 MBKRE44CCOP4
110	170	45	220	360	4800	5300	3.4	NN3022 TBKRCCOP4	NN3022 KTN9/SP	NN3022 SK.M.SP	NN3022 TBKRCCOP4
110	170	45	220	360	4800	5300	3.4	NN3022 TBP4	NN3022 TN9/SP	NN3022 M.SP	NN3022 TBP4
120	165	45	176	340	4800	5300	2.8	NNU4924 MBE44P4	NNU4924 B/SPW33	NNU4924 S.M.SP	NNU4924 MBE44P4
120	165	45	176	340	4800	5300	2.8	NNU4924 MBKRE44CCOP4	NNU4924 BK/SPW33	NNU4924 SK.M.SP	NNU4924 MBKRE44CCOP4
120	180	46	229	390	4500	5000	3.7	NN3024 TBKRCCOP4	NN3024 KTN9/SP	NN3024 SK.M.SP	NN3024 TBKRCCOP4
120	180	46	229	390	4500	5000	3.7	NN3024 TBP4	NN3024 TN9/SP	NN3024 M.SP	NN3024 TBP4
130	180	50	187	390	4300	4800	3.85	NNU4926 MBE44P4	NNU4926 B/SPW33	NNU4926 S.M.SP	NNU4926 MBE44P4
130	180	50	187	390	4300	4800	3.85	NNU4926 MBKRE44CCOP4	NNU4926 BK/SPW33	NNU4926 SK.M.SP	NNU4926 MBKRE44CCOP4
130	200	52	286	480	4000	4500	5.55	NN3026 TBKRCCOP4	NN3026 KTN9/SP	NN3026 SK.M.SP	NN3026 TBKRCCOP4
130	200	52	286	480	4000	4500	5.55	NN3026 TBP4	NN3026 TN9/SP	NN3026 M.SP	NN3026 TBP4



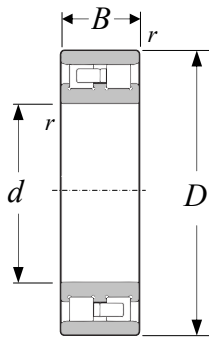
HIGH PRECISION BEARINGS
Cylindrical Roller Bearings, Double Row

Table 139
Bore Diameter 140mm – 260mm

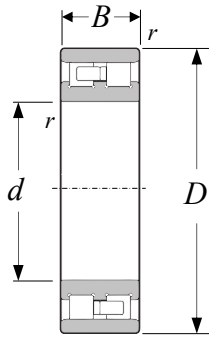
Principal Dimensions			Basic Load Ratings		Max. Speed		Mass	Designations			
d	D	B	C	C ₀	Grease	Oil-Air		Local	SKF	FAG	NSK
mm	mm	mm	kN		r/min	r/min	kg				
140	210	53	297	520	3800	4300	6	NN3028 MBE44P4	NN3028 /SPW33	NN3028 M.SP	NN3028 MBE44P4
140	190	50	190	400	4000	4500	4.1	NNU4928 MBE44P4	NNU4928 B/SPW33	NNU4928 S.M.SP	NNU4928 MBE44P4
140	190	50	190	400	4000	4500	4.1	NNU4928 MBKRE44CCOP4	NNU4928 BK/SPW33	NNU4928 SK.M.SP	NNU4928 MBKRE44CCOP4
140	210	53	297	520	3800	4300	6	NN3028 MBKRE44CCOP4	NN3028 K/SPW33	NN3028 SK.M.SP	NN3028 MBKRE44CCOP4
150	210	60	330	655	3800	4300	6.25	NNU4930 MBE44P4	NNU4930 B/SPW33	NNU4930 S.M.SP	NNU4930 MBE44P4
150	210	60	330	655	3800	4300	6.25	NNU4930 MBKRE44CCOP4	NNU4930 BK/SPW33	NNU4930 SK.M.SP	NNU4930 MBKRE44CCOP4
150	225	56	330	570	3600	4000	7.3	NN3030 MBKRE44CCOP4	NN3030 K/SPW33	NN3030 SK.M.SP	NN3030 MBKRE44CCOP4
150	225	56	330	570	3600	4000	7.3	NN3030 E44P4	NN3030 SPW33	NN3030 M.SP	NN3030 E44P4
160	220	60	330	680	3600	4000	6.6	NNU4932 MBE44P4	NNU4932 B/SPW33	NNU4932 S.M.SP	NNU4932 MBE44P4
160	220	60	330	680	3600	4000	6.6	NNU4932 MBKRE44CCOP4	NNU4932 BK/SPW33	NNU4932 SK.M.SP	NNU4932 MBKRE44CCOP4
160	240	60	369	655	3400	3800	8.8	NN3032 MBKRE44CCOP4	NN3032 K/SPW33	NN3032 SK.M.SP	NN3032 MBKRE44CCOP4
160	240	60	369	655	3400	3800	8.8	NN3032 E44P4	NN3032 SPW33	NN3032 M.SP	NN3032 E44P4
170	230	60	336	695	3400	3800	6.95	NNU4934 MBE44P4	NNU4934 B/SPW33	NNU4934 S.M.SP	NNU4934 MBE44P4
170	230	60	336	695	3400	3800	6.95	NNU4934 MBKRE44CCOP4	NNU4934 BK/SPW33	NNU4934 SK.M.SP	NNU4934 MBKRE44CCOP4
170	260	67	457	800	3200	3600	12	NN3034 MBKRE44CCOP4	NN3034 K/SPW33	NN3034 SK.M.SP	NN3034 MBKRE44CCOP4
170	260	67	457	800	3200	3600	12	NN3034 E44P4	NN3034 SPW33	NN3034 M.SP	NN3034 E44P4
180	250	69	402	850	3000	3400	10.5	NNU4936 MBE44P4	NNU4936 B/SPW33	NNU4936 S.M.SP	NNU4936 MBE44P4
180	250	69	402	850	3000	3400	10.5	NNU4936 MBKRE44CCOP4	NNU4936 BK/SPW33	NNU4936 SK.M.SP	NNU4936 MBKRE44CCOP4
180	280	74	561	1000	2800	3200	16	NN3036 MBKRE44CCOP4	NN3036 K/SPW33	NN3036 SK.M.SP	NN3036 MBKRE44CCOP4
180	280	74	561	1000	2800	3200	16	NN3036 E44P4	NN3036 SPW33	NN3036 M.SP	NN3036 E44P4
190	260	69	402	880	2800	3200	11	NNU4938 MBE44P4	NNU4938 B/SPW33	NNU4938 S.M.SP	NNU4938 MBE44P4
190	260	69	402	880	2800	3200	11	NNU4938 MBKRE44CCOP4	NNU4938 BK/SPW33	NNU4938 SK.M.SP	NNU4938 MBKRE44CCOP4
190	290	75	594	1080	2600	3000	17	NN3038 MBKRE44CCOP4	NN3038 K/SPW33	NN3038 SK.M.SP	NN3038 MBKRE44CCOP4
190	290	75	594	1080	2600	3000	17	NN3038 E44P4	NN3038 SPW33	NN3038 M.SP	NN3038 E44P4
200	280	80	484	1040	2600	3000	15	NNU4940 MBE44P4	NNU4940 B/SPW33	NNU4940 S.M.SP	NNU4940 MBE44P4
200	280	80	484	1040	2600	3000	15	NNU4940 MBKRE44CCOP4	NNU4940 BK/SPW33	NNU4940 SK.M.SP	NNU4940 MBKRE44CCOP4
200	280	80	484	1040	2600	3000	15	NNU4940 MBKRE44CCOP4	NNU4940 BK/SPW33	NNU4940 SK.M.SP	NNU4940 MBKRE44CCOP4
200	310	82	644	1140	2400	2800	21	NN3040 MBKRE44CCOP4	NN3040 K/SPW33	NN3040 SK.M.SP	NN3040 MBKRE44CCOP4
200	310	82	644	1140	2400	2800	21	NN3040 MBKRE44CCOP4	NN3040 K/SPW33	NN3040 SK.M.SP	NN3040 MBKRE44CCOP4
200	310	82	644	1140	2400	2800	21	NN3040 E44P4	NN3040 SPW33	NN3040 M.SP	NN3040 E44P4
200	310	82	644	1140	2400	2800	21	NN3040 E44P4	NN3040 SPW33	NN3040 M.SP	NN3040 E44P4
220	300	80	512	1140	2400	2800	16.5	NNU4944 MBE44P4	NNU4944 B/SPW33	NNU4944 S.M.SP	NNU4944 MBE44P4
220	300	80	512	1140	2400	2800	16.5	NNU4944 MBE44P4	NNU4944 B/SPW33	NNU4944 S.M.SP	NNU4944 MBE44P4
220	300	80	512	1140	2400	2800	16.5	NNU4944 MBKRE44CCOP4	NNU4944 BK/SPW33	NNU4944 SK.M.SP	NNU4944 MBKRE44CCOP4
220	300	80	512	1140	2400	2800	16.5	NNU4944 MBKRE44CCOP4	NNU4944 BK/SPW33	NNU4944 SK.M.SP	NNU4944 MBKRE44CCOP4
220	340	90	809	1460	2200	2600	27.5	NN3044 MBKRE44CCOP4	NN3044 K/SPW33	NN3044 SK.M.SP	NN3044 MBKRE44CCOP4
220	340	90	809	1460	2200	2600	27.5	NN3044 MBKRE44CCOP4	NN3044 K/SPW33	NN3044 SK.M.SP	NN3044 MBKRE44CCOP4
220	340	90	809	1460	2200	2600	27.5	NN3044 E44P4	NN3044 SPW33	NN3044 M.SP	NN3044 E44P4
220	340	90	809	1460	2200	2600	27.5	NN3044 E44P4	NN3044 SPW33	NN3044 M.SP	NN3044 E44P4
240	320	80	528	1220	2200	2600	17.5	NNU4948 MBE44P4	NNU4948 B/SPW33	NNU4948 S.M.SP	NNU4948 MBE44P4
240	320	80	528	1220	2200	2600	17.5	NNU4948 MBE44P4	NNU4948 B/SPW33	NNU4948 S.M.SP	NNU4948 MBE44P4
240	320	80	528	1220	2200	2600	17.5	NNU4948 MBKRE44CCOP4	NNU4948 BK/SPW33	NNU4948 SK.M.SP	NNU4948 MBKRE44CCOP4
240	320	80	528	1220	2200	2600	17.5	NNU4948 MBKRE44CCOP4	NNU4948 BK/SPW33	NNU4948 SK.M.SP	NNU4948 MBKRE44CCOP4
240	360	92	842	1560	2000	2400	30.5	NN3048 MBKRE44CCOP4	NN3048 K/SPW33	NN3048 SK.M.SP	NN3048 MBKRE44CCOP4
240	360	92	842	1560	2000	2400	30.5	NN3048 MBKRE44CCOP4	NN3048 K/SPW33	NN3048 SK.M.SP	NN3048 MBKRE44CCOP4
240	360	92	842	1560	2000	2400	30.5	NN3048 E44P4	NN3048 SPW33	NN3048 M.SP	NN3048 E44P4
240	360	92	842	1560	2000	2400	30.5	NN3048 E44P4	NN3048 SPW33	NN3048 M.SP	NN3048 E44P4
260	360	100	748	1700	2000	2400	30.5	NNU4952 MBE44P4	NNU4952 B/SPW33	NNU4952 S.M.SP	NNU4952 MBE44P4
260	360	100	748	1700	2000	2400	30.5	NNU4952 MBE44P4	NNU4952 B/SPW33	NNU4952 S.M.SP	NNU4952 MBE44P4
260	360	100	748	1700	2000	2400	30.5	NNU4952 MBKRE44CCOP4	NNU4952 BK/SPW33	NNU4952 SK.M.SP	NNU4952 MBKRE44CCOP4
260	360	100	748	1700	2000	2400	30.5	NNU4952 MBKRE44CCOP4	NNU4952 BK/SPW33	NNU4952 SK.M.SP	NNU4952 MBKRE44CCOP4

HIGH PRECISION BEARINGS
Cylindrical Roller Bearings, Double Row

Table 140
Bore Diameter 260mm – 400mm



Principal Dimensions			Basic Load Ratings		Max. Speed		Mass	Designations			
d	D	B	C	C ₀	Grease	Oil-Air		Local	SKF	FAG	NSK
mm	mm	mm	mm	mm	r/min	r/min	kg				
260	360	100	748	1700	2000	2400	30.5	NNU4952 MBKRE44CCOP4	NNU4952 BK/SPW33	NNU4952 SK.M.SP	NNU4952 MBKRE44CCOP4
260	400	104	1020	1930	1900	2200	44	NN3052 MBKRE44CCOP4	NN3052 K/SPW33	NN3052 SK.M.SP	NN3052 MBKRE44CCOP4
260	400	104	1020	1930	1900	2200	44	NN3052 MBKRE44CCOP4	NN3052 K/SPW33	NN3052 SK.M.SP	NN3052 MBKRE44CCOP4
260	400	104	1020	1930	1900	2200	44	NN3052 E44P4	NN3052 SPW33	NN3052 M.SP	NN3052 E44P4
260	400	104	1020	1930	1900	2200	44	NN3052 E44P4	NN3052 SPW33	NN3052 M.SP	NN3052 E44P4
280	380	100	765	1800	1900	2200	32.5	NNU4956 MBE44P4	NNU4956 B/SPW33	NNU4956 S.M.SP	NNU4956 MBE44P4
280	380	100	765	1800	1900	2200	32.5	NNU4956 MBE44P4	NNU4956 B/SPW33	NNU4956 S.M.SP	NNU4956 MBE44P4
280	380	100	765	1800	1900	2200	32.5	NNU4956 MBKRE44CCOP4	NNU4956 BK/SPW33	NNU4956 SK.M.SP	NNU4956 MBKRE44CCOP4
280	380	100	765	1800	1900	2200	32.5	NNU4956 MBKRE44CCOP4	NNU4956 BK/SPW33	NNU4956 SK.M.SP	NNU4956 MBKRE44CCOP4
280	420	106	1080	2080	1800	2000	47.5	NN3056 MBKRE44CCOP4	NN3056 K/SPW33	NN3056 SK.M.SP	NN3056 MBKRE44CCOP4
280	420	106	1080	2080	1800	2000	47.5	NN3056 MBKRE44CCOP4	NN3056 K/SPW33	NN3056 SK.M.SP	NN3056 MBKRE44CCOP4
280	420	106	1080	2080	1800	2000	47.5	NN3056 E44P4	NN3056 SPW33	NN3056 M.SP	NN3056 E44P4
280	420	106	1080	2080	1800	2000	47.5	NN3056 E44P4	NN3056 SPW33	NN3056 M.SP	NN3056 E44P4
300	420	118	1020	2360	1800	2000	48	NNU4960 MBE44P4	NNU4960 B/SPW33	NNU4960 S.M.SP	NNU4960 MBE44P4
300	420	118	1020	2360	1800	2000	48	NNU4960 MBE44P4	NNU4960 B/SPW33	NNU4960 S.M.SP	NNU4960 MBE44P4
300	420	118	1020	2360	1800	2000	48	NNU4960 MBKRE44CCOP4	NNU4960 BK/SPW33	NNU4960 SK.M.SP	NNU4960 MBKRE44CCOP4
300	420	118	1020	2360	1800	2000	48	NNU4960 MBKRE44CCOP4	NNU4960 BK/SPW33	NNU4960 SK.M.SP	NNU4960 MBKRE44CCOP4
300	460	118	1250	2400	1700	1900	66.5	NN3060 MBKRE44CCOP4	NN3060 K/SPW33	NN3060 SK.M.SP	NN3060 MBKRE44CCOP4
300	460	118	1250	2400	1700	1900	66.5	NN3060 MBKRE44CCOP4	NN3060 K/SPW33	NN3060 SK.M.SP	NN3060 MBKRE44CCOP4
300	460	118	1250	2400	1700	1900	66.5	NN3060 E44P4	NN3060 SPW33	NN3060 M.SP	NN3060 E44P4
300	460	118	1250	2400	1700	1900	66.5	NN3060 E44P4	NN3060 SPW33	NN3060 M.SP	NN3060 E44P4
320	440	118	1060	2500	1700	1900	50	NNU4964 MBE44P4	NNU4964 B/SPW33	NNU4964 S.M.SP	NNU4964 MBE44P4
320	440	118	1060	2500	1700	1900	50	NNU4964 MBE44P4	NNU4964 B/SPW33	NNU4964 S.M.SP	NNU4964 MBE44P4
320	440	118	1060	2500	1700	1900	50	NNU4964 MBKRE44CCOP4	NNU4964 BK/SPW33	NNU4964 SK.M.SP	NNU4964 MBKRE44CCOP4
320	440	118	1060	2500	1700	1900	50	NNU4964 MBKRE44CCOP4	NNU4964 BK/SPW33	NNU4964 SK.M.SP	NNU4964 MBKRE44CCOP4
320	480	121	1320	2600	1600	1800	71	NN3064 MBKRE44CCOP4	NN3064 K/SPW33	NN3064 SK.M.SP	NN3064 MBKRE44CCOP4
320	480	121	1320	2600	1600	1800	71	NN3064 MBKRE44CCOP4	NN3064 K/SPW33	NN3064 SK.M.SP	NN3064 MBKRE44CCOP4
340	460	118	1100	2650	1500	1700	53	NNU4968 MBE44P4	NNU4968 B/SPW33	NNU4968 S.M.SP	NNU4968 MBE44P4
340	460	118	1100	2650	1500	1700	53	NNU4968 MBE44P4	NNU4968 B/SPW33	NNU4968 S.M.SP	NNU4968 MBE44P4
340	460	118	1100	2650	1500	1700	53	NNU4968 MBKRE44CCOP4	NNU4968 BK/SPW33	NNU4968 SK.M.SP	NNU4968 MBKRE44CCOP4
340	460	118	1100	2650	1500	1700	53	NNU4968 MBKRE44CCOP4	NNU4968 BK/SPW33	NNU4968 SK.M.SP	NNU4968 MBKRE44CCOP4
340	520	133	1650	3250	1400	1600	94.5	NN3068 MBKRE44CCOP4	NN3068 K/SPW33	NN3068 SK.M.SP	NN3068 MBKRE44CCOP4
340	520	133	1650	3250	1400	1600	94.5	NN3068 MBKRE44CCOP4	NN3068 K/SPW33	NN3068 SK.M.SP	NN3068 MBKRE44CCOP4
360	480	118	1120	2800	1500	1700	55	NNU4972 MBE44P4	NNU4972 B/SPW33	NNU4972 S.M.SP	NNU4972 MBE44P4
360	480	118	1120	2800	1500	1700	55	NNU4972 MBE44P4	NNU4972 B/SPW33	NNU4972 S.M.SP	NNU4972 MBE44P4
360	480	118	1120	2800	1500	1700	55	NNU4972 MBKRE44CCOP4	NNU4972 BK/SPW33	NNU4972 SK.M.SP	NNU4972 MBKRE44CCOP4
360	480	118	1120	2800	1500	1700	55	NNU4972 MBKRE44CCOP4	NNU4972 BK/SPW33	NNU4972 SK.M.SP	NNU4972 MBKRE44CCOP4
360	540	134	1720	3450	1300	1500	102	NN3072 MBKRE44CCOP4	NN3072 K/SPW33	NN3072 SK.M.SP	NN3072 MBKRE44CCOP4
360	540	134	1720	3450	1300	1500	102	NN3072 MBKRE44CCOP4	NN3072 K/SPW33	NN3072 SK.M.SP	NN3072 MBKRE44CCOP4
380	520	140	1450	3600	1300	1500	83.5	NNU4976 MBE44P4	NNU4976 B/SPW33	NNU4976 S.M.SP	NNU4976 MBE44P4
380	520	140	1450	3600	1300	1500	83.5	NNU4976 MBE44P4	NNU4976 B/SPW33	NNU4976 S.M.SP	NNU4976 MBE44P4
380	520	140	1450	3600	1300	1500	83.5	NNU4976 MBKRE44CCOP4	NNU4976 BK/SPW33	NNU4976 SK.M.SP	NNU4976 MBKRE44CCOP4
380	520	140	1450	3600	1300	1500	83.5	NNU4976 MBKRE44CCOP4	NNU4976 BK/SPW33	NNU4976 SK.M.SP	NNU4976 MBKRE44CCOP4
380	560	135	1680	3450	1300	1500	105	NN3076 MBKRE44CCOP4	NN3076 K/SPW33	NN3076 SK.M.SP	NN3076 MBKRE44CCOP4
380	560	135	1680	3450	1300	1500	105	NN3076 MBKRE44CCOP4	NN3076 K/SPW33	NN3076 SK.M.SP	NN3076 MBKRE44CCOP4
400	540	140	1470	3800	1300	1500	87.5	NNU4980 MBKRE44CCOP4	NNU4980 BK/SPW33	NNU4980 SK.M.SP	NNU4980 MBKRE44CCOP4
400	540	140	1470	3800	1300	1500	87.5	NNU4980 MBE44P4	NNU4980 B/SPW33	NNU4980 S.M.SP	NNU4980 MBE44P4
400	540	140	1470	3800	1300	1500	87.5	NNU4980 MBE44P4	NNU4980 B/SPW33	NNU4980 S.M.SP	NNU4980 MBE44P4
400	540	140	1470	3800	1300	1500	87.5	NNU4980 MBKRE44CCOP4	NNU4980 BK/SPW33	NNU4980 SK.M.SP	NNU4980 MBKRE44CCOP4
400	600	148	2160	4500	1200	1400	135	NN3080 MBKRE44CCOP4	NN3080 K/SPW33	NN3080 SK.M.SP	NN3080 MBKRE44CCOP4



HIGH PRECISION BEARINGS
Cylindrical Roller Bearings, Double Row

Table 141
Bore Diameter 400mm – 670mm

Principal Dimensions			Basic Load Ratings		Max. Speed		Mass	Designations			
d	D	B	C	C ₀	Grease	Oil-Air		Local	SKF	FAG	NSK
mm	mm	mm	kN	kN	r/min	r/min	kg				
400	600	148	2160	4500	1200	1400	135	NN3080 MBKRE44CCOP4	NN3080 K/SPW33	NN3080 SK.M.SP	NN3080 MBKRE44CCOP4
420	560	140	1510	4000	1200	1400	91	NNU4984 MBE44P4	NNU4984 B/SPW33	NNU4984 S.M.SP	NNU4984 MBE44P4
420	560	140	1510	4000	1200	1400	91	NNU4984 MBKRE44CCOP4	NNU4984 BK/SPW33	NNU4984 SK.M.SP	NNU4984 MBKRE44CCOP4
420	560	140	1510	4000	1200	1400	91	NNU4984 MBKRE44CCOP4	NNU4984 BK/SPW33	NNU4984 SK.M.SP	NNU4984 MBKRE44CCOP4
420	620	150	2120	4500	1100	1300	140	NN3084 MBKRE44CCOP4	NN3084 K/SPW33	NN3084 SK.M.SP	NN3084 MBKRE44CCOP4
420	620	150	2120	4500	1100	1300	140	NN3084 MBKRE44CCOP4	NN3084 K/SPW33	NN3084 SK.M.SP	NN3084 MBKRE44CCOP4
460	620	160	2090	5500	1000	1200	130	NNU4992 MBE44P4	NNU4992 B/SPW33	NNU4992 S.M.SP	NNU4992 MBE44P4
460	620	160	2090	5500	1000	1200	130	NNU4992 MBE44P4	NNU4992 B/SPW33	NNU4992 S.M.SP	NNU4992 MBE44P4
460	620	160	2090	5500	1000	1200	130	NNU4992 MBKRE44CCOP4	NNU4992 BK/SPW33	NNU4992 SK.M.SP	NNU4992 MBKRE44CCOP4
460	620	160	2090	5500	1000	1200	130	NNU4992 MBKRE44CCOP4	NNU4992 BK/SPW33	NNU4992 SK.M.SP	NNU4992 MBKRE44CCOP4
460	680	163	2600	5500	1000	1200	190	NN3092 MBKRE44CCOP4	NN3092 K/SPW33	NN3092 SK.M.SP	NN3092 MBKRE44CCOP4
460	680	163	2600	5500	1000	1200	190	NN3092 MBKRE44CCOP4	NN3092 K/SPW33	NN3092 SK.M.SP	NN3092 MBKRE44CCOP4
500	670	170	2330	6100	950	1100	165	NNU49/500 MBE44P4	NNU49/500 B/SPW33X	NNU49/500 S.M.SP	NNU49/500 MBE44P4
500	670	170	2330	6100	950	1100	165	NNU49/500 MBE44P4	NNU49/500 B/SPW33X	NNU49/500 S.M.SP	NNU49/500 MBE44P4
500	670	170	2330	6100	950	1100	165	NNU49/500 MBKRE44CCOP4	NNU49/500 BK/SPW33X	NNU49/500 SK.M.SP	NNU49/500 MBKRE44CCOP4
500	670	170	2330	6100	950	1100	165	NNU49/500 MBKRE44CCOP4	NNU49/500 BK/SPW33X	NNU49/500 SK.M.SP	NNU49/500 MBKRE44CCOP4
600	800	200	3580	10200	800	900	280	NNU49/600 MBE44P4	NNU49/600 B/SPW33X	NNU49/600 S.M.SP	NNU49/600 MBE44P4
600	800	200	3580	10200	800	900	280	NNU49/600 MBE44P4	NNU49/600 B/SPW33X	NNU49/600 S.M.SP	NNU49/600 MBE44P4
600	800	200	3580	10200	800	900	280	NNU49/600 MBKRE44CCOP4	NNU49/600 BK/SPW33X	NNU49/600 SK.M.SP	NNU49/600 MBKRE44CCOP4
600	800	200	3580	10200	800	900	280	NNU49/600 MBKRE44CCOP4	NNU49/600 BK/SPW33X	NNU49/600 SK.M.SP	NNU49/600 MBKRE44CCOP4
670	900	230	4950	13700	700	800	410	NNU49/670 MBE44P4	NNU49/670 B/SPW33X	NNU49/670 S.M.SP	NNU49/670 MBE44P4
670	900	230	4950	13700	700	800	410	NNU49/670 MBE44P4	NNU49/670 B/SPW33X	NNU49/670 S.M.SP	NNU49/670 MBE44P4
670	900	230	4950	13700	700	800	410	NNU49/670 MBKRE44CCOP4	NNU49/670 BK/SPW33X	NNU49/670 SK.M.SP	NNU49/670 MBKRE44CCOP4
670	900	230	4950	13700	700	800	410	NNU49/670 MBKRE44CCOP4	NNU49/670 BK/SPW33X	NNU49/670 SK.M.SP	NNU49/670 MBKRE44CCOP4

BEARING UNITS

Bearing units are basically a combination of a ball bearing for radial loads, seal, and a cast steel housing that is made in various shapes. Bearing units are self-aligning and insensitive to shaft misalignment or deflection, the bearing outer surface and the housing inner surface are both spherical. An oil proof duplex seal which is made of synthetic rubber is provided at both side of the bearing.

Pillow Type Units

Pillow type unit is the most common type among all bearing units. Its' housing with the robust and solid base rib at the mounting section provides the capability enduring great loads from any direction. They are available as UCP and UKP type in this series, which its' housings are made of cast steel. Pillow type units are greatly suitable for application where sever loading and shock load conditions are expected during operation. They are widely used in general transmission equipment and machinery applications.



Square Four-Bolts Flange Type Units

Square four bolt flange type units provide another robust mounting method, where the mounting bolts are orientated axially to the shaft. Flange type units are suitable where condition the mounting surface has 90° mating to the shaft. The flange units are mounted with four bolts, which enabled it can be easily attached or detached from the mounting applications. UCF and UKF are available in the series.



Oval Flange Type Units

The flange unit of this bearing is made to oval shape, with two mounting bolt hole, which makes it for even easier installation. The main advantage of this unit is it needs less space for installation, and specifically suitable where mounting space is limited. Oval flange units are often used where a situation that there are two shafts installation and it is technically necessary to minimize the distance between the two shafts. Oval flange unit mounting hole is basically conforming to square flange unit mounting dimension at the diagonal position of holes



Round Flange Cartridge Type Units

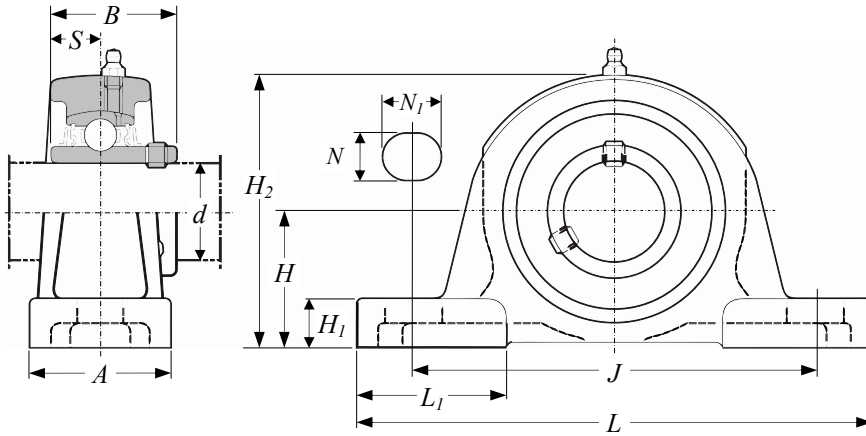
The round cartridge type unit has a round shaped cartridge at the back side of the flange. The cartridge design provides the unit with capability of precise mounting. Round flange cartridge type units are suitable where precise mounting accuracy is necessity.



Take Up Type Units

Take up type bearing units are greatly suitable for applications where the mounted shaft or rollers need an adjustable capability. The notch of take up units fit at the linear track of the take up frame and this has allowed a linear adjustment along the plane of the frame. Take up units has widely used for industrial automation equipment, such as conveyors.





BEARING UNITS
Pillow Type Units, UCP

Table 142

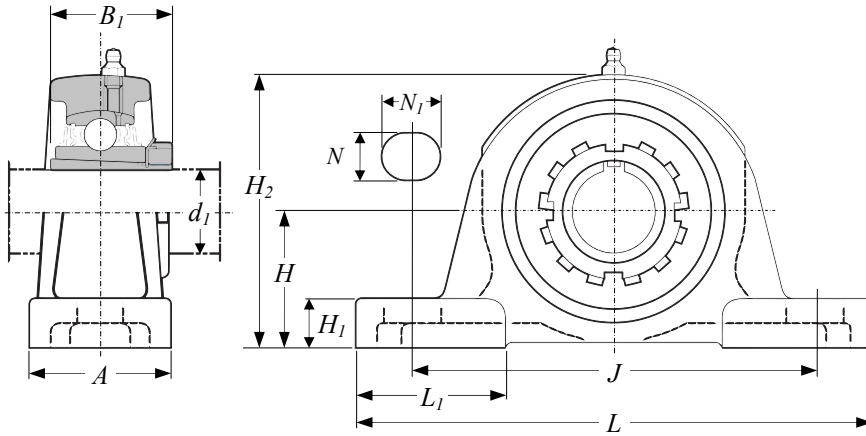
Bore Diameter
12mm – 140mm

Principal Dimensions													Bolt Size	Basic Load Ratings		Fact	Mass	Designations		
d	H	L	A	J	N	N ₁	H ₁	H ₂	L ₁	B	S	C _r		C _{0r}	f ₀			kg	Housing No.	Bearing No.
mm																				
12	30.2	127	38	95	13	18	12	60	38	31	12.7	M10	12.8	6.65	13.2	0.63	P203	UC201	UCP201	
15	30.2	127	38	95	13	18	12	60	38	31	12.7	M10	12.8	6.65	13.2	0.61	P203	UC202	UCP202	
17	30.2	127	38	95	13	18	12	60	38	31	12.7	M10	12.8	6.65	13.2	0.60	P203	UC203	UCP203	
20	33.3	127	38	95	13	18	13	64	38	31	12.7	M10	12.8	6.65	13.2	0.66	P204	UC204	UCP204	
25	36.5	140	38	105	13	18	13	71	43	34.1	14.3	M10	14.0	7.85	13.9	0.80	P205	UC205	UCP205	
	44.4	159	51	119	17	25	16	86	47	38.1	15.9	M14	19.5	11.3	13.9	1.5	PX05	UCX05	UCPX05	
	45	175	45	132	17	20	16	85	55	38	15	M14	21.2	10.9	12.6	1.7	P305	UC305	UCP305	
30	42.9	165	48	121	17	21	15	84	53	38.1	15.9	M14	19.5	11.3	13.9	1.3	P206	UC206	UCP206	
	47.6	175	57	127	17	25	17	93	55	42.9	17.5	M14	25.7	15.4	13.9	2.1	PX06	UCX06	UCPX06	
	50	180	50	140	17	20	17	95	53	43	17	M14	26.7	15.0	13.3	2.2	P306	UC306	UCP306	
35	47.6	167	48	127	17	21	16	93	51	42.9	17.5	M14	25.7	15.4	13.9	1.6	P207	UC207	UCP207	
	54	203	57	144	17	30	19	105	64	49.2	19	M14	29.1	17.8	14.0	2.7	PX07	UCX07	UCPX07	
	56	210	56	160	17	25	19	107	65	48	19	M14	33.4	19.3	13.2	3.0	P307	UC307	UCP307	
40	49.2	184	54	137	17	21	17	98	57	49.2	19	M14	29.1	17.8	14.0	2.0	P208	UC208	UCP208	
	58.7	222	67	156	20	32	21	114	71	49.2	19	M16	34.1	21.3	14.0	3.5	PX08	UCX08	UCPX08	
	60	220	60	170	17	27	19	118	65	52	19	M14	40.7	24.0	13.2	3.8	P308	UC308	UCP308	
45	54	190	54	146	17	21	17	106	60	49.2	19	M14	34.1	21.3	14.0	2.2	P209	UC209	UCP209	
	58.7	222	67	156	20	33	21	116	71	51.6	19	M16	35.1	23.3	14.4	3.7	PX09	UCX09	UCPX09	
	67	245	67	190	20	30	21	132	75	57	22	M16	48.9	29.5	13.3	4.9	P309	UC309	UCP309	
50	57.2	206	60	159	20	22	19	113	63	51.6	19	M16	35.1	23.3	14.4	2.9	P210	UC210	UCP210	
	63.5	241	73	171	20	36	22	126	76	55.6	22.2	M16	43.4	29.4	14.4	4.6	PX10	UCX10	UCPX10	
	75	275	75	212	20	35	24	148	88	61	22	M16	62.0	38.3	13.2	6.6	P310	UC310	UCP310	
55	63.5	219	60	171	20	22	19	125	70	55.6	22.2	M16	43.4	29.4	14.4	3.6	P211	UC211	UCP211	
	69.8	260	79	184	25	36	28	139	83	65.1	25.4	M20	52.4	36.2	14.4	6.5	PX11	UCX11	UCPX11	
	80	310	80	236	20	38	27	158	90	66	25	M16	71.6	45.0	13.2	7.9	P311	UC311	UCP311	
60	69.8	241	70	184	20	25	22	138	76	65.1	25.4	M16	52.4	36.2	14.4	4.9	P212	UC212	UCP212	
	76.2	286	83	203	25	40	28	152	88	65.1	25.4	M20	57.2	40.1	14.4	7.7	PX12	UCX12	UCPX12	
60	85	330	85	250	25	38	29	167	103	71	26	M20	81.9	52.2	13.2	9.5	P312	UC312	UCP312	
65	76.2	265	70	203	25	30	25	150	78	65.1	25.4	M20	57.2	40.1	14.4	5.9	P213	UC213	UCP213	
	76.2	286	83	203	25	40	28	155	88	74.6	30.2	M20	62.2	44.1	14.5	8.1	PX13	UCX13	UCPX13	
	90	340	90	260	25	38	32	176	110	75	30	M20	92.7	59.9	13.2	10.7	P313	UC313	UCP313	
70	79.4	266	72	210	25	30	28	156	78	74.6	30.2	M20	62.2	44.1	14.5	6.8	P214	UC214	UCP214	
	88.9	330	89	229	27	50	32	171	98	77.8	33.3	M22	67.4	48.3	14.5	10.2	PX14	UCX14	UCPX14	
	95	360	90	280	27	40	35	186	110	78	33	M22	104	68.2	13.2	12.4	P314	UC314	UCP314	
75	82.6	275	74	217	25	30	28	162	80	77.8	33.3	M20	67.4	48.3	14.5	7.4	P215	UC215	UCP215	
	88.9	330	89	229	27	50	32	175	99	82.6	33.3	M22	72.7	53.0	14.6	10.8	PX15	UCX15	UCPX15	
	100	380	100	290	27	40	35	198	107	82	32	M22	113	77.2	13.2	14.8	P315	UC315	UCP315	
80	88.9	292	78	232	25	35	32	174	86	82.6	33.3	M20	72.7	53.0	14.6	9.0	P216	UC216	UCP216	
	101.6	381	102	283	27	58	34	195	116	85.7	34.1	M22	84.0	61.9	14.5	15.3	PX16	UCX16	UCPX16	
	106	400	110	300	27	40	35	209	120	86	34	M22	123	86.7	13.3	18.5	P316	UC316	UCP316	
85	95.2	310	83	247	25	40	32	185	90	85.7	34.1	M20	84.0	61.9	14.5	10.8	P217	UC217	UCP217	
	101.6	381	103	283	27	60	34	200	116	96	39.7	M22	96.1	71.5	14.5	16.1	PX17	UCX17	UCPX17	
	112	420	110	320	33	45	40	220	120	96	40	M27	133	96.8	13.3	20.3	P317	UC317	UCP317	
90	101.6	327	88	262	27	45	34	198	104	96	39.7	M22	96.1	71.5	14.5	13.9	P218	UC218	UCP218	
	101.6	381	111	283	27	60	38	204	116	104	42.9	M22	109	81.9	14.4	19.1	PX18	UCX18	UCPX18	
	118	430	110	330	33	45	40	234	120	96	40	M27	143	107	13.3	22.8	P318	UC318	UCP318	
95	125	470	120	360	36	50	46	248	125	103	41	M30	153	119	13.3	29.0	P319	UC319	UCP319	
100	127	432	121	337	33	65	45	245	126	117.5	49.2	M27	133	105	14.4	30.4	PX20	UCX20	UCPX20	
	140	490	120	380	36	50	46	273	140	108	42	M30	173	141	13.2	35.1	P320	UC320	UCP320	
105	140	490	120	380	36	50	46	278	140	112	44	M30	184	153	13.2	37.6	P321	UC321	UCP321	
110	150	520	140	400	40	55	50	296	150	117	46	M33	205	180	13.2	44.0	P322	UC322	UCP322	
120	160	570	140	450	40	55	50	316	160	126	51	M33	207	185	13.5	55.4	P324	UC324	UCP324	
130	180	600	140	480	40	55	50	355	195	135	54	M33	229	214	13.6	72.1	P326	UC326	UCP326	
140	200	620	140	500	40	55	60	393	185	145	59	M33	253	246	13.6	92.5	P328	UC328	UCP328	

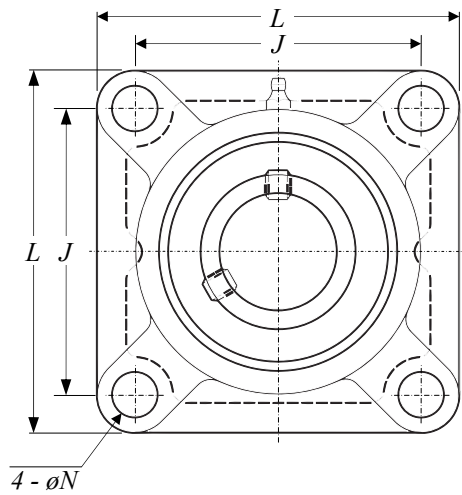
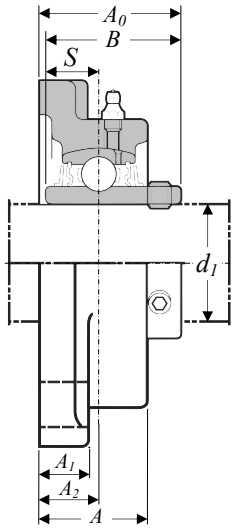
BEARING UNITS
Pillow Type Units, UKP

Table 143

Bore Diameter
20mm – 125mm



Principal Dimensions											Bolt Size	Basic Load Ratings		Fact f_0	Mass	Designations		
d	H	L	A	J	N	N_1	H_1	H_2	L_1	B		C_r	C_{0r}			Housing No.	Bearing No.	Unit No.
mm																		
20	36.5	140	38	105	13	18	13	71	43	29	M10	14.0	7.85	13.9	0.84	P205	UK205	UKP205
	44.4	159	51	119	17	25	16	86	47	35	M14	19.5	11.3	13.9	1.5	PX05	UKX05	UKPX05
	45	175	45	132	17	20	16	85	55	35	M14	21.2	10.9	12.6	1.7	P305	UK305	UKP305
25	42.9	165	48	121	17	21	15	84	53	31	M14	19.5	11.3	13.9	1.4	P206	UK206	UKP206
	47.6	175	57	127	17	25	17	93	55	38	M14	25.7	15.4	13.9	2.1	PX06	UKX06	UKPX06
	50	180	50	140	17	20	17	95	53	38	M14	26.7	15.0	13.3	2.3	P306	UK306	UKP306
30	47.6	167	48	127	17	21	16	93	51	35	M14	25.7	15.4	13.9	1.7	P207	UK207	UKP207
	54	203	57	144	17	30	19	105	64	43	M14	29.1	17.8	14.0	2.7	PX07	UKX07	UKPX07
	56	210	56	160	17	25	19	107	65	43	M14	33.4	19.3	13.2	3.0	P307	UK307	UKP307
35	49.2	184	54	137	17	21	17	98	57	36	M14	29.1	17.8	14.0	2.0	P208	UK208	UKP208
	58.7	222	67	156	20	32	21	114	71	46	M16	34.1	21.3	14.0	3.5	PX08	UKX08	UKPX08
	60	220	60	170	17	27	19	118	65	46	M14	40.7	24.0	13.2	3.8	P308	UK308	UKP308
40	54	190	54	146	17	21	17	106	60	39	M14	34.1	21.3	14.0	2.3	P209	UK209	UKP209
	58.7	222	67	156	20	33	21	116	71	50	M16	35.1	23.3	14.4	3.7	PX09	UKX09	UKPX09
	67	245	67	190	20	30	21	132	75	50	M16	48.9	29.5	13.3	5.0	P309	UK309	UKP309
45	57.2	206	60	159	20	22	19	113	63	42	M16	35.1	23.3	14.4	3.0	P210	UK210	UKP210
	63.5	241	73	171	20	36	22	126	76	55	M16	43.4	29.4	14.4	4.6	PX10	UKX10	UKPX10
	75	275	75	212	20	35	24	148	88	55	M16	62.0	38.3	13.2	6.7	P310	UK310	UKP310
50	63.5	219	60	171	20	22	19	125	70	45	M16	43.4	29.4	14.4	3.7	P211	UK211	UKP211
	69.8	260	79	184	25	36	28	139	83	59	M20	52.4	36.2	14.4	6.2	PX11	UKX11	UKPX11
	80	310	80	236	20	38	27	158	90	59	M16	71.6	45.0	13.2	8.1	P311	UK311	UKP311
55	69.8	241	70	184	20	25	22	138	76	47	M16	52.4	36.2	14.4	4.8	P212	UK212	UKP212
	76.2	286	83	203	25	40	28	152	88	62	M20	57.2	40.1	14.4	7.5	PX12	UKX12	UKPX12
	85	330	85	250	25	38	29	167	103	62	M20	81.9	52.2	13.2	9.4	P312	UK312	UKP312
60	76.2	265	70	203	25	30	25	150	78	50	M20	57.2	40.1	14.4	5.8	P213	UK213	UKP213
	76.2	286	83	203	25	40	28	155	88	65	M20	62.2	44.1	14.5	7.8	PX13	UKX13	UKPX13
60	90	340	90	260	25	38	32	176	110	65	M20	92.7	59.9	13.2	10.8	P313	UK313	UKP313
65	82.6	275	74	217	25	30	28	162	80	55	M20	67.4	48.3	14.5	7.5	P215	UK215	UKP215
	88.9	330	89	229	27	50	32	175	99	73	M22	72.7	53.0	14.6	10.5	PX15	UKX15	UKPX15
	100	380	100	290	27	40	35	198	107	73	M22	113	77.2	13.2	14.9	P315	UK315	UKP315
70	88.9	292	78	232	25	35	32	174	86	59	M20	72.7	53.0	14.6	9.2	P216	UK216	UKP216
	101.6	381	102	283	27	58	34	195	116	78	M22	84.0	61.9	14.5	15.4	PX16	UKX16	UKPX16
	106	400	110	300	27	40	35	209	120	78	M22	123	86.7	13.3	18.6	P316	UK316	UKP316
75	95.2	310	83	247	25	40	32	185	90	63	M20	84.0	61.9	14.5	11.0	P217	UK217	UKP217
	101.6	381	102	283	27	60	34	200	116	82	M22	96.1	71.5	14.5	15.8	PX17	UKX17	UKPX17
	112	420	110	320	33	45	40	220	120	82	M27	133	96.8	13.3	20.2	P317	UK317	UKP317
80	101.6	327	88	262	27	45	34	198	104	65	M22	96.1	71.5	14.5	13.8	P218	UK218	UKP218
	101.6	381	111	283	27	60	38	204	116	86	M22	109	81.9	14.4	18.6	PX18	UKX18	UKPX18
	118	430	110	330	33	45	40	234	120	86	M27	143	107	13.3	22.8	P318	UK318	UKP318
85	125	470	120	360	36	50	46	248	125	90	M30	153	119	13.3	29.3	P319	UK319	UKP319
90	127	432	121	337	33	65	45	245	126	97	M27	133	105	14.4	29.3	PX20	UKX20	UKPX20
	140	490	120	380	36	50	46	273	140	97	M30	173	141	13.2	34.8	P320	UK320	UKP320
100	150	520	140	400	40	55	50	296	150	105	M33	205	180	13.2	43.9	P322	UK322	UKP322
110	160	570	140	450	40	55	50	316	160	112	M33	207	185	13.5	55.7	P324	UK324	UKP324
115	180	600	140	480	40	55	50	355	195	121	M33	229	214	13.6	71.9	P326	UK326	UKP326
125	200	620	140	500	40	55	60	393	185	131	M33	253	246	13.6	92.5	P328	UK328	UKP328



BEARING UNITS
Square Four-Bolt
Flange Type Unit, UCF

Table 144

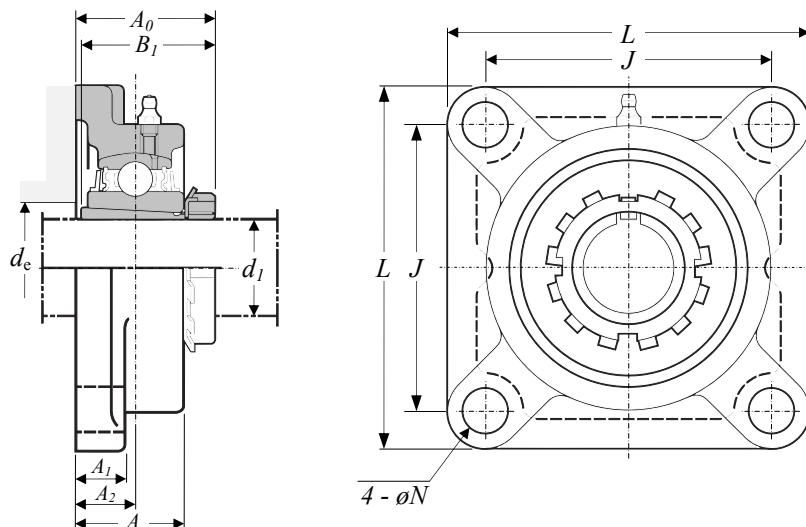
Bore Diameter
12mm – 140mm

Principal Dimensions										Bolt Size	Basic Load Ratings		Fact f_0	Mass kg	Designations			
d	L	A	J	N	A ₁	A ₂	A ₀	B	S		C _r	C _{0r}			Housing No.	Bearing No.	Unit No.	
mm										mm	kN							
12	86	25.5	64	12	11	15	33.3	31	12.7	M10	12.8	6.65	13.2	0.64	F204	UC201	UCF201	
15	86	25.5	64	12	11	15	33.3	31	12.7	M10	12.8	6.65	13.2	0.62	F204	UC202	UCF202	
17	86	25.5	64	12	11	15	33.3	31	12.7	M10	12.8	6.65	13.2	0.61	F204	UC203	UCF203	
20	86	25.5	64	12	11	15	33.3	31	12.7	M10	12.8	6.65	13.2	0.59	F204	UC204	UCF204	
25	95	27	70	12	13	16	35.8	34.1	14.3	M10	14.0	7.85	13.9	0.83	F205	UC205	UCF205	
	108	30	83	12	13	18	40.2	38.1	15.9	M10	19.5	11.3	13.9	1.2	FX05	UCX05	UCFX05	
	110	29	80	16	13	16	39	38	15	M14	21.2	10.9	12.6	1.3	F305	UC305	UCF305	
30	108	31	83	12	13	18	40.2	38.1	15.9	M10	19.5	11.3	13.9	1.1	F206	UC206	UCF206	
	117	34	92	16	14	19	44.4	42.9	17.5	M14	25.7	15.4	13.9	1.6	FX06	UCX06	UCFX06	
	125	32	95	16	15	18	44	43	17	M14	26.7	15.0	13.3	1.9	F306	UC306	UCF306	
35	117	34	92	14	15	19	44.4	42.9	17.5	M12	25.7	15.4	13.9	1.5	F207	UC207	UCF207	
	130	38	102	16	14	21	51.2	49.2	19	M14	29.1	17.8	14.0	2.0	FX07	UCX07	UCFX07	
	135	36	100	19	16	20	49	48	19	M16	33.4	19.3	13.2	2.3	F307	UC307	UCF307	
40	130	36	102	16	15	21	51.2	49.2	19	M14	29.1	17.8	14.0	1.9	F208	UC208	UCF208	
	137	40	105	19	14	22	52.2	49.2	19	M16	34.1	21.3	14.0	2.4	FX08	UCX08	UCFX08	
	150	40	112	19	17	23	56	52	19	M16	40.7	24.0	13.2	3.1	F308	UC308	UCF308	
45	137	38	105	16	16	22	52.2	49.2	19	M14	34.1	21.3	14.0	2.2	F209	UC209	UCF209	
	143	40	111	19	14	23	55.6	51.6	19	M16	35.1	23.3	14.4	2.7	FX09	UCX09	UCFX09	
	160	44	125	19	18	25	60	57	22	M16	48.9	29.5	13.3	4.0	F309	UC309	UCF309	
50	143	40	111	16	16	22	54.6	51.6	19	M14	35.1	23.3	14.4	2.5	F210	UC210	UCF210	
	162	44	130	19	20	26	59.4	55.6	22.2	M16	43.4	29.4	14.4	3.7	FX10	UCX10	UCFX10	
	175	48	132	23	19	28	67	61	22	M20	62.0	38.3	13.2	5.1	F310	UC310	UCF310	
55	162	43	130	19	18	25	58.4	55.6	22.2	M16	43.4	29.4	14.4	3.4	F211	UC211	UCF211	
	175	49	143	19	20	29	68.7	65.1	25.4	M16	52.4	36.2	14.4	4.9	FX11	UCX11	UCFX11	
	185	52	140	23	20	30	71	66	25	M20	71.6	45.0	13.2	5.6	F311	UC311	UCF311	
60	175	48	143	19	18	29	68.7	65.1	25.4	M16	52.4	36.2	14.4	4.2	F212	UC212	UCF212	
	187	59	149	19	21	34	73.7	65.1	25.4	M16	57.2	40.1	14.4	5.7	FX12	UCX12	UCFX12	
	195	56	150	23	22	33	78	71	26	M20	81.9	52.2	13.2	6.9	F312	UC312	UCF312	
65	187	50	149	19	22	30	69.7	65.1	25.4	M16	57.2	40.1	14.4	5.2	F213	UC213	UCF213	
	187	59	149	19	21	34	78.4	74.6	30.2	M16	62.2	44.1	14.5	6.3	FX13	UCX13	UCFX13	
	208	58	166	23	22	33	78	75	30	M20	92.7	59.9	13.2	7.8	F313	UC313	UCF313	
70	193	54	152	19	22	31	75.4	74.6	30.2	M16	62.2	44.1	14.5	5.9	F214	UC214	UCF214	
	197	60	152	23	22	37	81.5	77.8	33.3	M20	67.4	48.3	14.5	7.0	FX14	UCX14	UCFX14	
	226	61	178	25	25	36	81	78	33	M22	104	68.2	13.2	10.1	F314	UC314	UCF314	
75	200	56	159	19	22	34	78.5	77.8	33.3	M16	67.4	48.3	14.5	6.4	F215	UC215	UCF215	
	197	68	152	23	24	40	89.3	82.6	33.3	M20	72.7	53.0	14.6	8.4	FX15	UCX15	UCFX15	
	236	66	184	25	25	39	89	82	32	M22	113	77.2	13.2	11.6	F315	UC315	UCF315	
80	208	58	165	23	22	34	83.3	82.6	33.3	M20	72.7	53.0	14.6	7.3	F216	UC216	UCF216	
	214	70	171	23	24	40	91.6	85.7	34.1	M20	84.0	61.9	14.5	9.4	FX16	UCX16	UCFX16	
	250	68	196	31	27	38	90	86	34	M27	123	86.7	13.3	12.8	F316	UC316	UCF316	
85	220	63	175	23	24	36	87.6	85.7	34.1	M20	84.0	61.9	14.5	8.9	F217	UC217	UCF217	
	214	70	171	23	24	40	96.3	96	39.7	M20	96.1	71.5	14.5	10.8	FX17	UCX17	UCFX17	
	260	74	204	31	27	44	100	96	40	M27	133	96.8	13.3	15.3	F317	UC317	UCF317	
90	235	68	187	23	25	40	96.3	96	39.7	M20	96.1	71.5	14.5	11.4	F218	UC218	UCF218	
	214	76	171	23	24	45	106.1	104	42.9	M20	109	81.9	14.4	11.9	FX18	UCX18	UCFX18	
	280	76	216	35	30	44	100	96	40	M30	143	107	13.3	18.9	F318	UC318	UCF318	
95	290	94	228	35	30	59	121	103	41	M30	153	119	13.3	21.6	F319	UC319	UCF319	
100	268	97	211	31	28	59	127.3	117.5	49.2	M27	133	105	14.4	19.4	FX20	UCX20	UCFX20	
	310	94	242	38	32	59	125	108	42	M33	173	141	13.2	25.8	F320	UC320	UCF320	
105	310	94	242	38	32	59	127	112	44	M33	184	153	13.2	30.2	F321	UC321	UCF321	
	110	340	96	266	41	35	60	131	117	46	M36	205	180	13.2	35.3	F322	UC322	UCF322
	120	370	110	290	41	40	65	140	126	51	M36	207	185	13.5	47.3	F324	UC324	UCF324
	130	410	115	320	41	45	65	146	135	54	M36	229	214	13.6	65.5	F326	UC326	UCF326
	140	450	125	350	41	55	75	161	145	59	M36	253	246	13.6	93.4	F328	UC328	UCF328

BEARING UNITS
Square Four-Bolt
Flange Type Unit, UKF

Table 145

Bore Diameter
20mm – 125mm

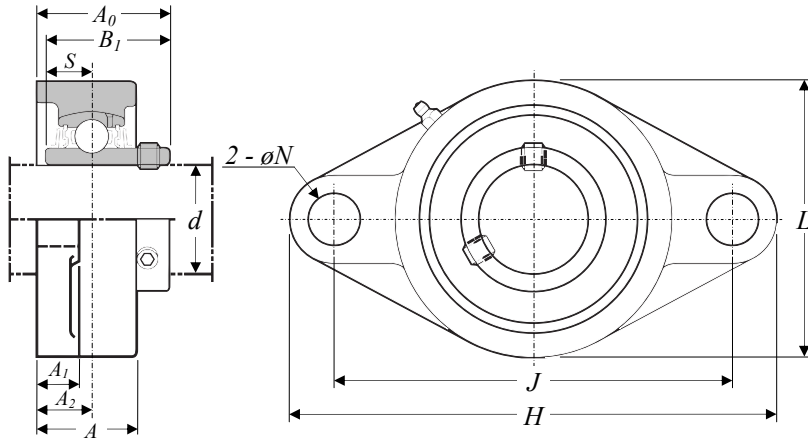


Principal Dimensions										Bolt Size	Basic Load Ratings		Fact	Mass	Designations			
d	L	A	J	N	A ₁	A ₂	A ₀	B ₁	d _e		C _r	C _{0r}			f ₀	Housing No.	Bearing No.	Unit No.
20	95	27	70	12	13	16	34.5	29	30	M10	14.0	7.85	13.9	0.87	F205	UKF205	UKF205	H305X
	108	30	83	12	13	18	37.5	35	30	M10	19.5	11.3	13.9	1.2	FX05	UKX05	UKFX05	H2305X
	110	29	80	16	13	16	37.5	35	-	M14	21.2	10.9	12.6	1.4	F305	UK305	UKF305	H2305X
25	108	31	83	12	13	18	37.5	31	36	M10	19.5	11.3	13.9	1.3	F206	UK206	UKF206	H306X
	117	34	92	16	14	19	40	38	36	M14	25.7	15.4	13.9	1.6	FX06	UKX06	UKFX06	H2306X
	125	32	95	16	15	18	41	38	-	M14	26.7	15.0	13.3	1.9	F306	UK306	UKF306	H2306X
30	117	34	92	14	15	19	41	35	41	M12	25.7	15.4	13.9	1.6	F207	UK207	UKF207	H307X
	130	38	102	16	14	21	43.5	43	41	M14	29.1	17.8	14.0	2.0	FX07	UKX07	UKFX07	H2307X
	135	36	100	19	16	20	45.5	43	-	M16	33.4	19.3	13.2	2.3	F307	UK307	UKF307	H2307X
35	130	36	102	16	15	21	44.5	36	46	M14	29.1	17.8	14.0	1.9	F208	UK208	UKF208	H308X
	137	40	105	19	14	22	46.5	46	46	M16	34.1	21.3	14.0	2.3	FX08	UKX08	UKFX08	H2308X
	150	40	112	19	17	23	50.5	46	-	M16	40.7	24.0	13.2	3.1	F308	UK308	UKF308	H2308X
40	137	38	105	16	16	22	47.5	39	52	M14	34.1	21.3	14.0	2.3	F209	UK209	UKF209	H309X
	143	40	111	19	14	23	48.5	50	52	M16	35.1	23.3	14.4	2.7	FX09	UKX09	UKFX09	H2309X
	160	44	125	19	18	25	55	50	-	M16	48.9	29.5	13.3	4.1	F309	UK309	UKF309	H2309X
45	143	40	111	16	16	22	48.5	42	58	M14	35.1	23.3	14.4	2.6	F210	UK210	UKF210	H310X
	162	44	130	19	20	26	53.5	55	58	M16	43.4	29.4	14.4	3.6	FX10	UKX10	UKFX10	H2310X
	175	48	132	23	19	28	60	55	-	M20	62.0	38.3	13.2	5.1	F310	UK310	UKF310	H2310X
50	162	43	130	19	18	25	52.5	45	64	M16	43.4	29.4	14.4	3.5	F211	UK211	UKF211	H311X
	175	49	143	19	20	29	57.5	59	64	M16	52.4	36.2	14.4	4.6	FX11	UKX11	UKFX11	H2311X
	185	52	140	23	20	30	63.5	59	-	M20	71.6	45.0	13.2	5.9	F311	UK311	UKF311	H2311X
55	175	48	143	19	18	29	58.5	47	69	M16	52.4	36.2	14.4	4.1	F212	UK212	UKF212	H312X
	187	59	149	19	21	34	65	62	69	M16	57.2	40.1	14.4	5.5	FX12	UKX12	UKFX12	H2312X
	195	56	150	23	22	33	69.5	62	-	M20	81.9	52.2	13.2	6.8	F312	UK312	UKF312	H2312X
60	187	50	149	19	22	30	62	50	74	M16	57.2	40.1	14.4	5.1	F213	UK213	UKF213	H313X
	187	59	149	19	21	34	68	65	74	M16	62.2	44.1	14.5	6.0	FX13	UKX13	UKFX13	H2313X
	208	58	166	23	22	33	71.5	65	-	M20	92.7	59.9	13.2	7.9	F313	UK313	UKF313	H2313X
65	200	56	159	19	22	34	69	55	85	M16	67.4	48.3	14.5	6.5	F215	UK215	UKF215	H315X
	197	68	152	23	24	40	76	73	85	M20	72.7	53.0	14.6	8.1	FX15	UKX15	UKFX15	H2315X
	236	66	184	25	25	39	81.5	73	-	M22	113	77.2	13.2	11.7	F315	UK315	UKF315	H2315X
70	208	58	165	23	22	34	72	59	90	M20	72.7	53.0	14.6	7.6	F216	UK216	UKF216	H316X
	214	70	171	23	24	40	79	78	90	M20	84.0	61.9	14.5	9.5	FX16	UKX16	UKFX16	H2316X
	250	68	196	31	27	38	82.5	78	-	M27	123	86.7	13.3	12.9	F316	UK316	UKF316	H2316X
75	220	63	175	23	24	36	76	63	96	M20	84.0	61.9	14.5	9.0	F217	UK217	UKF217	H317X
	214	70	171	23	24	40	82	82	96	M20	96.1	71.5	14.5	10.4	FX17	UKX17	UKFX17	H2317X
	260	74	204	31	27	44	92	82	-	M27	133	96.8	13.3	15.2	F317	UK317	UKF317	H2317X
80	235	68	187	23	25	40	82	65	102	M20	96.1	71.5	14.5	11.4	F218	UK218	UKF218	H318X
	214	76	171	23	24	45	88	86	102	M20	109	81.9	14.4	11.4	FX18	UKX18	UKFX18	H2318X
	280	76	216	35	30	44	92	86	-	M30	143	107	13.3	19.0	F318	UK318	UKF318	H2318X
85	290	94	228	35	30	59	111	90	-	M30	153	119	13.3	21.9	F319	UK319	UKF319	H2319X
90	268	97	211	31	28	59	106	97	112	M27	133	105	14.4	18.4	FX20	UKX20	UKFX20	H2320X
	310	94	242	38	32	59	113	97	-	M33	173	141	13.2	25.4	F320	UK320	UKF320	H2320X
100	340	96	266	41	35	60	120	105	-	M36	205	180	13.2	35.2	F322	UK322	UKF322	H2322X
110	370	110	290	41	40	65	130.5	112	-	M36	207	185	13.5	47.6	F324	UK324	UKF324	H2324
115	410	115	320	41	45	65	131.5	121	-	M36	229	214	13.6	65.3	F326	UK326	UKF326	H2326
125	450	125	350	41	55	75	147.5	131	-	M36	253	246	13.6	93.4	F328	UK328	UKF328	H2328

BEARING UNITS
Oval Flange Type unit
UCFL

Table 146

Bore Diameter
12mm – 140mm

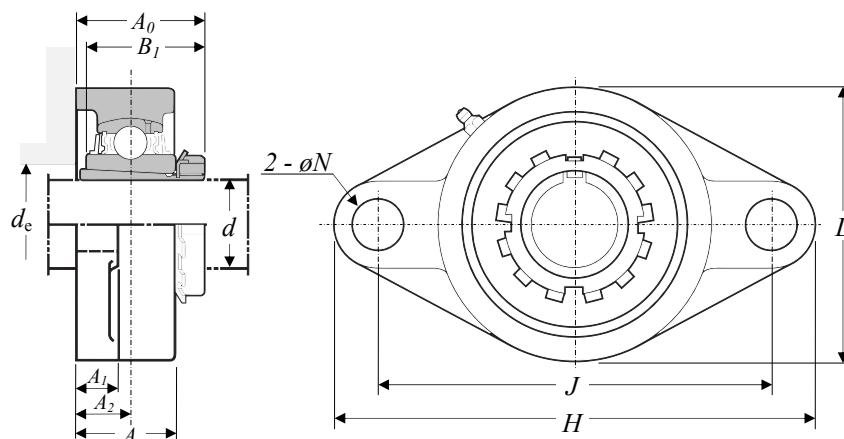


Principal Dimensions											Bolt Size	Basic Load Ratings		Fact f_0	Mass	Designations		
d	H	L	A	J	N	A ₁	A ₂	A ₀	B	S		C _r	C _{0r}			Housing No.	Bearing No.	Unit No.
mm											mm	kN		kg				
12	113	60	25.5	90	12	11	15	33.3	31	12.7	M10	12.8	6.65	13.2	0.50	FL204	UC201	UCFL201
15	113	60	25.5	90	12	11	15	33.3	31	12.7	M10	12.8	6.65	13.2	0.48	FL204	UC202	UCFL202
17	113	60	25.5	90	12	11	15	33.3	31	12.7	M10	12.8	6.65	13.2	0.47	FL204	UC203	UCFL203
20	113	60	25.5	90	12	11	15	33.3	31	12.7	M10	12.8	6.65	13.2	0.45	FL204	UC204	UCFL204
25	130	68	27	99	16	13	16	35.8	34.1	14.3	M14	14.0	7.85	13.9	0.64	FL205	UC205	UCFL205
	141	83	30	117	12	13	18	40.2	38.1	15.9	M10	19.5	11.3	13.9	1.1	FLX05	UCX05	UCFLX05
	150	80	29	113	19	13	16	39	38	15	M16	21.2	10.9	12.6	1.1	FL305	UC305	UCFL305
30	148	80	31	117	16	13	18	40.2	38.1	15.9	M14	19.5	11.3	13.9	0.93	FL206	UC206	UCFL206
	156	95	34	130	16	14	19	44.4	42.9	17.5	M14	25.7	15.4	13.9	1.5	FLX06	UCX06	UCFLX06
	180	90	32	134	23	15	18	44	43	17	M20	26.7	15.0	13.3	1.5	FL306	UC306	UCFL306
35	161	90	34	130	16	14	19	44.4	42.9	17.5	M14	25.7	15.4	13.9	1.2	FL207	UC207	UCFL207
	171	105	38	144	16	14	21	51.2	49.2	19	M14	29.1	17.8	14.0	1.9	FLX07	UCX07	UCFLX07
	185	100	36	141	23	16	20	49	48	19	M20	33.4	19.3	13.2	1.8	FL307	UC307	UCFL307
40	175	100	36	144	16	14	21	51.2	49.2	19	M14	29.1	17.8	14.0	1.6	FL208	UC208	UCFL208
	179	111	40	148	16	14	22	52.2	49.2	19	M14	34.1	21.3	14.0	2.1	FLX08	UCX08	UCFLX08
	200	112	40	158	23	17	23	56	52	19	M20	40.7	24.0	13.2	2.5	FL308	UC308	UCFL308
45	188	108	38	148	19	15	22	52.2	49.2	19	M16	34.1	21.3	14.0	1.9	FL209	UC209	UCFL209
	189	116	40	157	16	14	23	55.6	51.6	19	M14	35.1	23.3	14.4	2.4	FLX09	UCX09	UCFLX09
	230	125	44	177	25	18	25	60	57	22	M22	48.9	29.5	13.3	3.5	FL309	UC309	UCFL309
50	197	115	40	157	19	15	22	54.6	51.6	19	M16	35.1	23.3	14.4	2.2	FL210	UC210	UCFL210
	216	133	44	184	19	20	26	59.4	55.6	22.2	M16	43.4	29.4	14.4	3.8	FLX10	UCX10	UCFLX10
	240	140	48	187	25	19	28	67	61	22	M22	62.0	38.3	13.2	4.4	FL310	UC310	UCFL310
55	224	130	43	184	19	18	25	58.4	55.6	22.2	M16	43.4	29.4	14.4	3.3	FL211	UC211	UCFL211
	250	150	52	198	25	20	30	71	66	25	M22	71.6	45.0	13.2	5.3	FL311	UC311	UCFL311
60	250	140	48	202	23	18	29	68.7	65.1	25.4	M20	52.4	36.2	14.4	4.2	FL212	UC212	UCFL212
	270	160	56	212	31	22	33	78	71	26	M27	81.9	52.2	13.2	6.5	FL312	UC312	UCFL312
65	258	155	50	210	23	20	30	69.7	65.1	25.4	M20	57.2	40.1	14.4	5.1	FL213	UC213	UCFL213
	295	175	58	240	31	25	33	78	75	30	M27	92.7	59.9	13.2	8.5	FL313	UC313	UCFL313
70	265	160	54	216	23	20	31	75.4	74.6	30.2	M20	62.2	44.1	14.5	5.7	FL214	UC214	UCFL214
	315	185	61	250	35	28	36	81	78	33	M30	104	68.2	13.2	9.7	FL314	UC314	UCFL314
75	275	165	56	225	23	20	34	78.5	77.8	33.3	M20	67.4	48.3	14.5	6.4	FL215	UC215	UCFL215
	320	195	66	260	35	30	39	89	82	32	M30	113	77.2	13.2	11.3	FL315	UC315	UCFL315
80	290	180	58	233	25	20	34	83.3	82.6	33.3	M22	72.7	53.0	14.6	7.8	FL216	UC216	UCFL216
	355	210	68	285	38	32	38	90	86	34	M33	123	86.7	13.3	14.4	FL316	UC316	UCFL316
85	305	190	63	248	25	22	36	87.6	85.7	34.1	M22	84.0	61.9	14.5	9.8	FL217	UC217	UCFL217
	370	220	74	300	38	32	44	100	96	40	M33	133	96.8	13.3	16.0	FL317	UC317	UCFL317
90	320	205	68	265	25	23	40	96.3	96	39.7	M22	96.1	71.5	14.5	12.3	FL218	UC218	UCFL218
	385	235	76	315	38	36	44	100	96	40	M33	143	107	13.3	19.0	FL318	UC318	UCFL318
95	405	250	94	330	41	40	59	121	103	41	M36	153	119	13.3	24.6	FL319	UC319	UCFL319
100	440	270	94	360	44	40	59	125	108	42	M39	173	141	13.2	29.4	FL320	UC320	UCFL320
105	440	270	94	360	44	40	59	127	112	44	M39	184	153	13.2	34.4	FL321	UC321	UCFL321
110	470	300	96	390	44	42	60	131	117	46	M39	205	180	13.2	36.2	FL322	UC322	UCFL322
120	520	330	110	430	47	48	65	140	126	51	M42	207	185	13.5	51.6	FL324	UC324	UCFL324
130	550	360	115	460	47	50	65	146	135	54	M42	229	214	13.6	61.6	FL326	UC326	UCFL326
140	600	400	125	500	51	60	75	161	145	59	M45	253	246	13.6	68.4	FL328	UC328	UCFL328

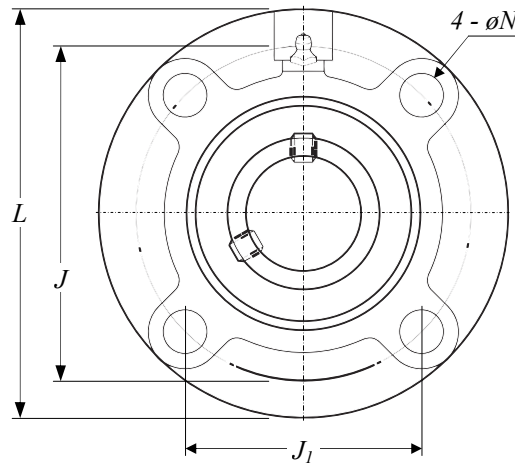
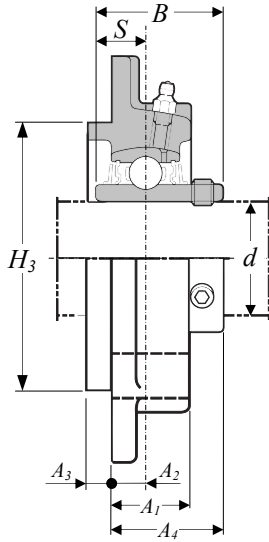
BEARING UNITS
Oval Flange Type unit
UKFL

Table 147

Bore Diameter
20mm – 125mm



Principal Dimensions														Bolt Size	Basic Load Ratings		Fact	Mass	Designations			
d	H	L	A	J	N	A ₁	A ₂	A ₀	B ₁	d _e	mm	C _r	C _{0r}		f ₀	kg			Housing No.	Bearing No.	Unit No.	Adapter No.
20	130	68	27	99	16	13	16	34.5	29	30	M14	14.0	7.85	13.9	0.68	FL205	UK205	UKFL205	H305X			
	141	83	30	117	12	13	18	37.5	35	30	M10	19.5	11.3	13.9	1.0	FLX05	UKX05	UKFLX05	H2305X			
	150	80	29	113	19	13	16	37.5	35	-	M16	21.2	10.9	12.6	1.1	FL305	UK305	UKFL305	H2305X			
25	148	80	31	117	16	13	18	37.5	31	36	M14	19.5	11.3	13.9	0.97	FL206	UK206	UKFL206	H306X			
	156	95	34	130	16	14	19	40	38	36	M14	25.7	15.4	13.9	1.5	FLX06	UKX06	UKFLX06	H2306X			
	180	90	32	134	23	15	18	41	38	-	M20	26.7	15.0	13.3	1.5	FL306	UK306	UKFL306	H2306X			
30	161	90	34	130	16	14	19	41	35	41	M14	25.7	15.4	13.9	1.3	FL207	UK207	UKFL207	H307X			
	171	105	38	144	16	14	21	43.5	43	41	M14	29.1	17.8	14.0	1.8	FLX07	UKX07	UKFLX07	H2307X			
	185	100	36	141	23	16	20	45.5	43	-	M20	33.4	19.3	13.2	1.9	FL307	UK307	UKFL307	H2307X			
35	175	100	36	144	16	14	21	44.5	36	46	M14	29.1	17.8	14.0	1.6	FL208	1JK208	UKFL208	H308X			
	179	111	40	148	16	14	22	46.5	46	46	M14	34.1	21.3	14.0	2.1	FLX08	UKX08	UKFLX08	H2308X			
	200	112	40	158	23	17	23	50.5	46	-	M20	40.7	24.0	13.2	2.5	FL308	UK308	UKFL308	H2308X			
40	188	108	38	148	19	15	22	47.5	39	52	M16	34.1	21.3	14.0	2.0	FL209	UK209	UKFL209	H309X			
	189	116	40	157	16	14	23	48.5	50	52	M14	35.1	23.3	14.4	2.5	FLX09	UKX09	UKFLX09	H2309X			
	230	125	44	177	25	18	25	55	50	-	M22	48.9	29.5	13.3	3.6	FL309	1JK309	UKFL309	H2309X			
45	197	115	40	157	19	15	22	48.5	42	58	M16	35.1	23.3	14.4	2.3	FL210	UK210	UKFL210	H310X			
	216	133	44	184	19	20	26	53.5	55	58	M16	43.4	29.4	14.4	3.7	FLX10	UKX10	UKFLX10	H2310X			
	240	140	48	187	25	19	28	60	55	-	M22	62.0	38.3	13.2	4.4	FL310	UK310	UKFL310	H2310X			
50	224	130	43	184	19	18	25	52.5	45	64	M16	43.4	29.4	14.4	3.3	FL211	UK211	UKFL211	H311X			
	250	150	52	198	25	20	30	63.5	59	-	M22	71.6	45.0	13.2	5.6	FL311	UK311	UKFL311	H2311X			
55	250	140	48	202	23	18	29	58.5	47	69	M20	52.4	36.2	14.4	4.1	FL212	UK212	UKFL212	H312X			
	270	160	56	212	31	22	33	69.5	62	-	M27	81.9	52.2	13.2	6.9	FL312	UK312	UKFL312	H2312X			
60	258	155	50	210	23	20	30	62	50	74	M20	57.2	40.1	14.4	5.0	FL213	UK213	UKFL213	H313X			
	295	175	58	240	31	25	33	71.5	65	-	M27	92.7	59.9	13.2	8.6	FL313	UK313	UKFL313	H2313X			
65	275	165	56	225	23	20	34	69	55	85	M20	67.4	48.3	14.5	6.6	FL215	UK215	UKFL215	H315X			
	320	195	66	260	35	30	39	81.5	73	-	M30	113	77.2	13.2	11.4	FL315	UK315	UKFL315	H2315X			
70	290	180	58	233	25	20	34	72	59	90	M22	72.7	53.0	14.6	8.1	FL216	UK216	UKFL216	H316X			
	355	210	68	285	38	32	38	82.5	78	-	M33	123	86.7	13.3	13.9	FL316	UK316	UKFL316	H2316X			
75	305	190	63	248	25	22	36	76	63	96	M22	84.0	61.9	14.5	9.9	FL217	UK217	UKFL217	H317X			
	370	220	74	300	38	32	44	92	82	-	M33	133	96.8	13.3	15.8	FL317	UK317	UKFL317	H2317X			
80	320	205	68	265	25	23	40	82	65	102	M22	96.1	71.5	14.5	12.2	FL218	UK218	UKFL218	H318X			
	385	235	76	315	38	36	44	92	86	-	M33	143	107	13.3	19.1	FL318	UK318	UKFL318	H2318X			
85	405	250	94	330	41	40	59	111	90	-	M36	153	119	13.3	24.9	FL319	UK319	UKFL319	H2319X			
90	440	270	94	360	44	40	59	113	97	-	M39	173	141	13.2	29.0	FL320	UK320	UKFL320	H2320X			
100	470	300	96	390	44	42	60	120	105	-	M39	205	180	13.2	36.1	FL322	UK322	UKFL322	H2322X			
110	520	330	110	430	47	48	65	130.5	112	-	M42	207	185	13.5	51.9	FL324	UK324	UKFL324	H2324			
115	550	360	115	460	47	50	65	131.5	121	-	M42	229	214	13.6	61.4	FL326	UK326	UKFL326	H2326			
125	600	400	125	500	51	60	75	147.5	131	-	M45	253	246	13.6	68.4	FL328	UK328	UKFL328	H2328			



BEARING UNITS
Round Flange Cartridge
Type Units, UCFC

Table 148

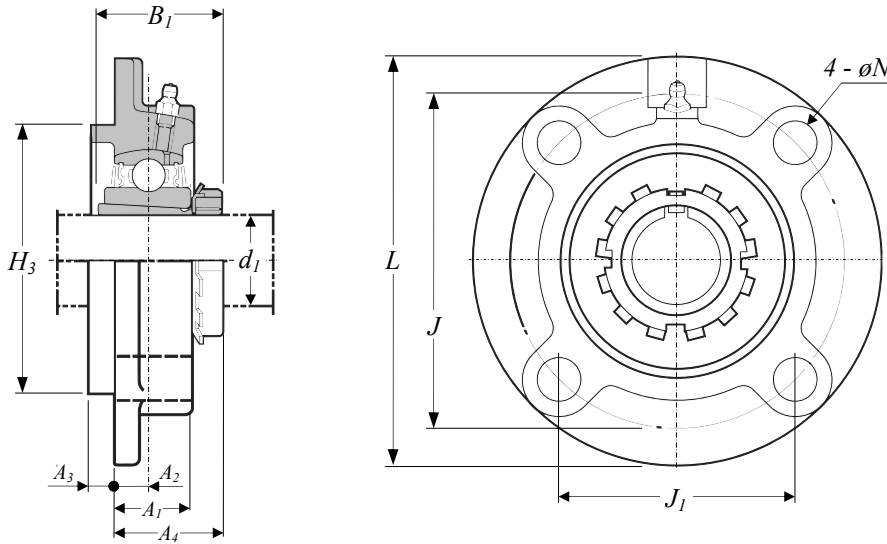
Bore Diameter
12mm – 100mm

Principal Dimensions												Bolt Size	Basic Load Ratings		Fact f ₀	Mass kg	Designations		
d	L	H ₃	J	J ₁	N	A ₁	A ₂	A ₃	A ₄	B	S		C _r	C _{0r}			Housing No.	Bearing No.	Unit No.
12	100	62	78	55.1	12	20.5	10	5	28.3	31	12.7	M10	12.8	6.65	13.2	0.78	FC204	UC201	UCFC201
15	100	62	78	55.1	12	20.5	10	5	28.3	31	12.7	M10	12.8	6.65	13.2	0.76	FC204	UC202	UCFC202
17	100	62	78	55.1	12	20.5	10	5	28.3	31	12.7	M10	12.8	6.65	13.2	0.75	FC204	UC203	UCFC203
20	100	62	78	55.1	12	20.5	10	5	28.3	31	12.7	M10	12.8	6.65	13.2	0.73	FC204	UC204	UCFC204
25	115	70	90	63.6	12	21	10	6	29.8	34.1	14.3	M10	14.0	7.85	13.9	0.95	FC205	UC205	UCFC205
	111	76	92	65	9.5	24	10	6	32.2	38.1	15.9	M8	19.5	11.3	13.9	1.2	FCX05	UCX05	UCFCX05
30	125	80	100	70.7	12	23	10	8	32.2	38.1	15.9	M10	19.5	11.3	13.9	1.3	FC206	UC206	UCFC206
	127	85	105	74.2	12	22.5	8	9.5	33.4	42.9	17.5	M10	25.7	15.4	13.9	1.5	FCX06	UCX06	UCFCX06
35	135	90	110	77.8	14	26	11	8	36.4	42.9	17.5	M12	25.7	15.4	13.9	1.7	FC207	UC207	UCFC207
	133	92	111	78.5	12	26	9	11	39.2	49.2	19	M10	29.1	17.8	14.0	1.9	FCX07	UCX07	UCFCX07
40	145	100	120	84.8	14	26	11	10	41.2	49.2	19	M12	29.1	17.8	14.0	2.0	FC208	UC208	UCFC208
	133	92	111	78.5	12	26	9	11	39.2	49.2	19	M10	34.1	21.3	14.0	2.0	FCX08	UCX08	UCFCX08
45	160	105	132	93.3	16	26	10	12	40.2	49.2	19	M14	34.1	21.3	14.0	2.6	FC209	UC209	UCFC209
	155	108	130	91.9	14	25	8	12	40.6	51.6	19	M12	35.1	23.3	14.4	2.6	FCX09	UCX09	UCFCX09
50	165	110	138	97.6	16	28	10	12	42.6	51.6	19	M14	35.1	23.3	14.4	2.9	FC210	UC210	UCFC210
	162	118	136	96.2	14	25	7	16	40.4	55.6	22.2	M12	43.4	29.4	14.4	3.2	FCX10	UCX10	UCFCX10
55	185	125	150	106.1	19	31	13	12	46.4	55.6	22.2	M16	43.4	29.4	14.4	4.2	FC211	UC211	UCFC211
	180	127	152	107.5	16	26	4	22	43.7	65.1	25.4	M14	52.4	36.2	14.4	4.3	FCX11	UCX11	UCFCX11
60	195	135	160	113.1	19	36	17	12	56.7	65.1	25.4	M16	52.4	36.2	14.4	5.0	FC212	UC212	UCFC212
	194	140	165	116.7	16	33	11	20	50.7	65.1	25.4	M14	57.2	40.1	14.4	5.3	FCX12	UCX12	UCFCX12
65	205	145	170	120.2	19	36	16	14	55.7	65.1	25.4	M16	57.2	40.1	14.4	5.6	FC213	UC213	UCFC213
	194	140	165	116.7	16	33	11	20	55.4	74.6	30.2	M14	62.2	44.1	14.5	5.7	FCX13	UCX13	UCFCX13
70	215	150	177	125.1	19	40	17	14	61.4	74.6	30.2	M16	62.2	44.1	14.5	6.8	FC214	UC214	UCFC214
	222	164	190	134.3	19	36	14	20	58.5	77.8	33.3	M16	67.4	48.3	14.5	7.3	FCX14	UCX14	UCFCX14
75	220	160	184	130.1	19	40	18	16	62.5	77.8	33.3	M16	67.4	48.3	14.5	7.2	FC215	UC215	UCFC215
	222	164	190	134.3	19	35	12	22	61.3	82.6	33.3	M16	72.7	53.0	14.6	8.0	FCX15	UCX15	UCFCX15
80	240	170	200	141.4	23	42	18	16	67.3	82.6	33.3	M20	72.7	53.0	14.6	8.7	FC216	UC216	UCFC216
	260	186	219	154.8	23	36	10	25	61.6	85.7	34.1	M20	84.0	61.9	14.5	11.3	FCX16	UCX16	UCFCX16
85	250	180	208	147.1	23	45	18	18	69.6	85.7	34.1	M20	84.0	61.9	14.5	10.3	FC217	UC217	UCFC217
	260	186	219	154.8	23	36	10	25	66.3	96	39.7	M20	96.1	71.5	14.5	12.9	FCX17	UCX17	UCFCX17
90	265	190	220	155.5	23	50	22	18	78.3	96	39.7	M20	96.1	71.5	14.5	13.3	FC218	UC218	UCFC218
	260	186	219	154.8	23	43	12	28	73.1	104	42.9	M20	109	81.9	14.4	13.5	FCX18	UCX18	UCFCX18
100	276	206	238	168.3	23	66	22	28	90.3	118	49.2	M20	133	105	14.4	18.2	FCX20	UCX20	UCFCX20

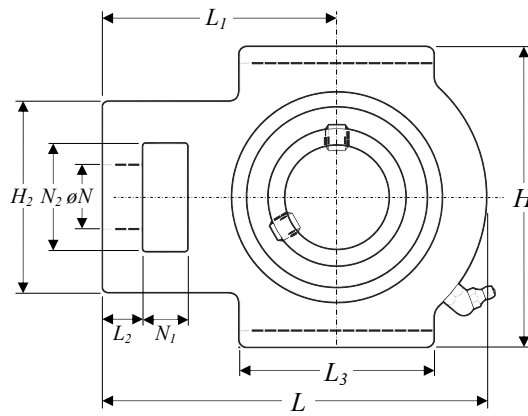
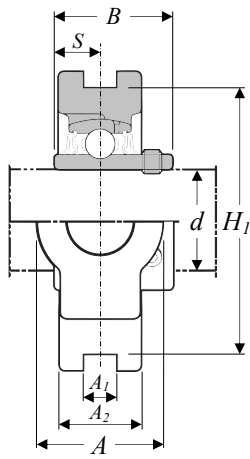
BEARING UNITS
Round Flange Cartridge
Type Units, UKFC

Table 149

Bore Diameter
20mm – 75mm



Principal Dimensions											Bolt Size	Basic Load Ratings		Fact f ₀	Mass kg	Designations		
d ₁	L	H ₃	J	J ₁	N	A ₁	A ₂	A ₃	A ₄	B ₁		C _r	C _{0r}			Housing No.	Bearing No.	Unit No.
20	115	70	90	63.6	12	21	10	6	28.5	29	M10	14.0	7.85	13.9	0.99	FC205	UK205	UKFC205
	111	76	92	65	9.5	24	10	6	29.5	35	M8	19.5	11.3	13.9	1.2	FCX05	UKX05	UKFCX05
25	125	80	100	70.7	12	23	10	8	29.5	31	M10	19.5	11.3	13.9	1.3	FC206	UK206	UKFC206
	127	85	105	74.2	12	22.5	8	9.5	29	38	M10	25.7	15.4	13.9	1.5	FCX06	UKX06	UKFCX06
30	135	90	110	77.8	14	26	11	8	33	35	M12	25.7	15.4	13.9	1.7	FC207	UK207	UKFC207
	133	92	111	78.5	12	26	9	11	31.5	43	M10	29.1	17.8	14.0	1.9	FCX07	UKX07	UKFCX07
35	145	100	120	84.8	14	26	11	10	34.5	36	M12	29.1	17.8	14.0	2.0	FC208	UK208	UKFC208
	133	92	111	78.5	12	26	9	11	33.5	46	M10	34.1	21.3	14.0	1.9	FCX08	UKX08	UKFCX08
40	160	105	132	93.3	16	26	10	12	35.5	39	M14	34.1	21.3	14.0	2.7	FC209	UK209	UKFC209
	155	108	130	91.9	14	25	8	12	33.5	50	M12	35.1	23.3	14.4	2.6	FCX09	UKX09	UKFCX09
45	165	110	138	97.6	16	28	10	12	36.5	42	M14	35.1	23.3	14.4	3.0	FC210	UK210	UKFC210
	162	118	136	96.2	14	25	7	16	34.5	55	M12	43.4	29.4	14.4	3.1	FCX10	UKX10	UKFCX10
50	185	125	150	106.1	19	31	13	12	40.5	45	M16	43.4	29.4	14.4	4.3	FC211	UK211	UKFC211
	180	127	152	107.5	16	26	4	22	32.5	59	M14	52.4	36.2	14.4	4.0	FCX11	UKX11	UKFCX11
55	195	135	160	113.1	19	36	17	12	46.5	47	M16	52.4	36.2	14.4	4.9	FC212	UK212	UKFC212
	194	140	165	116.7	16	33	11	20	42	62	M14	57.2	40.1	14.4	5.1	FCX12	UKX12	UKFCX12
60	205	145	170	120.2	19	36	16	14	48	50	M16	57.2	40.1	14.4	5.5	FC213	UK213	UKFC213
	194	140	165	116.7	16	33	11	20	45	65	M14	62.2	44.1	14.5	5.3	FCX13	UKX13	UKFCX13
65	220	160	184	130.1	19	40	18	16	53	55	M16	67.4	48.3	14.5	7.4	FC215	UK215	UKFC215
	222	164	190	134.3	19	35	12	22	48	73	M16	72.7	53.0	14.6	7.7	FCX15	UKX15	UKFCX15
70	240	170	200	141.4	23	42	18	16	56	59	M20	72.7	53.0	14.6	9.0	FC216	UK216	UKFC216
	260	186	219	154.8	23	36	10	25	49	78	M20	84.0	61.9	14.5	11.4	FCX16	UKX16	UKFCX16
75	250	180	208	147.1	23	45	18	18	58	63	M20	84.0	61.9	14.5	10.4	FC217	UK217	UKFC217
	260	186	219	154.8	23	36	10	25	52	82	M20	96.1	71.5	14.5	12.6	FCX17	UKX17	UKFCX17



BEARING UNITS
Take Up Type Units, UCT

Table 150

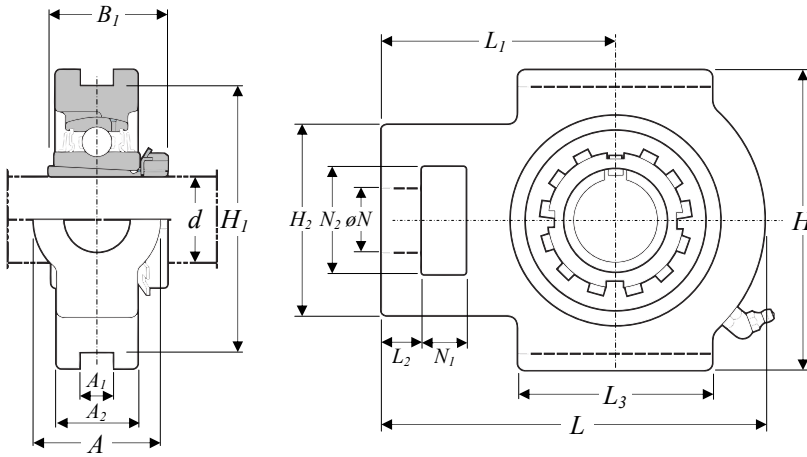
Bore Diameter
12mm – 140mm

Principal Dimensions																	Basic Load Ratings		Mass	Designations		
d	A	A ₁	A ₂	H	H ₁	H ₂	L	L ₁	L ₂	L ₃	N	N ₁	N ₂	B	S	C _r	C _{0r}	kg		Housing No.	Bearing No.	Unit No.
mm																	kN					
12	32	12	21	89	76	51	94	61	10	51	19	16	32	31	12.7	12.8	6.65	0.81	T204	UC201	UCT201	
15	32	12	21	89	76	51	94	61	10	51	19	16	32	31	12.7	12.8	6.65	0.79	T204	UC202	UCT202	
17	32	12	21	89	76	51	94	61	10	51	19	16	32	31	12.7	12.8	6.65	0.78	T204	UC203	UCT203	
20	32	12	21	89	76	51	94	61	10	51	19	16	32	31	12.7	12.8	6.65	0.76	T204	UC204	UCT204	
25	32	12	24	89	76	51	97	62	10	51	19	16	32	34.1	14.3	14.0	7.85	0.84	T205	UC205	UCT205	
	37	12	28	102	89	56	113	70	10	57	22	16	37	38.1	15.9	19.5	11.3	1.4	TX05	UCX05	UCTX05	
	36	12	26	89	80	62	122	76	12	65	26	16	36	38	15	21.2	10.9	1.4	T305	UC305	UCT305	
30	37	12	28	102	89	56	113	70	10	57	22	16	37	38.1	15.9	19.5	11.3	1.3	T206	UC206	UCT206	
	37	12	30	102	89	64	129	78	13	64	22	16	37	42.9	17.5	25.7	15.4	1.7	TX06	UCX06	UCTX06	
	41	16	28	100	90	70	137	85	14	74	28	18	41	43	17	26.7	15.0	1.8	T306	UC306	UCT306	
35	37	12	30	102	89	64	129	78	13	64	22	16	37	42.9	17.5	25.7	15.4	1.6	T207	UC207	UCT207	
	49	16	36	114	102	83	144	88	15	83	29	19	49	49.2	19	29.1	17.8	2.7	TX07	UCX07	UCTX07	
	45	16	32	111	100	75	150	94	15	80	30	20	45	48	19	33.4	19.3	2.3	T307	UC307	UCT307	
40	49	16	33	114	102	83	144	88	16	83	29	19	49	49.2	19	29.1	17.8	2.5	T208	UC208	UCT208	
	49	16	36	117	102	83	144	87	15	83	29	19	49	49.2	19	34.1	21.3	2.6	TX08	UCX08	UCTX08	
	50	18	34	124	112	83	162	100	17	89	32	22	50	52	19	40.7	24.0	3.0	T308	UC308	UCT308	
45	49	16	35	117	102	83	144	87	16	83	29	19	49	49.2	19	34.1	21.3	2.4	T209	UC209	UCT209	
	49	16	38	117	102	83	149	90	16	86	29	19	49	51.6	19	35.1	23.3	2.9	TX09	UCX09	UCTX09	
	55	18	38	138	125	90	178	110	18	97	34	24	55	57	22	48.9	29.5	4.1	T309	UC309	UCT309	
50	49	16	37	117	102	83	149	90	16	86	29	19	49	51.6	19	35.1	23.3	2.6	T210	UC210	UCT210	
	64	22	42	146	130	102	171	106	19	95	35	25	64	55.6	22.2	43.4	29.4	4.4	TX10	UCX10	UCTX10	
	61	20	40	151	140	98	191	117	20	106	37	27	61	61	22	62.0	38.3	4.9	T310	UC310	UCT310	
55	64	22	38	146	130	102	171	106	19	95	35	25	64	55.6	22.2	43.4	29.4	4.0	T211	UC211	UCT211	
	64	22	44	146	130	102	194	119	19	102	35	32	64	65.1	25.4	52.4	36.2	5.3	TX11	UCX11	UCTX11	
	66	22	44	163	150	105	207	127	21	115	39	29	66	66	25	71.6	45.0	6.1	T311	UC311	UCT311	
60	64	22	42	146	130	102	194	119	19	102	35	32	64	65.1	25.4	52.4	36.2	4.9	T212	UC212	UCT212	
60	70	26	48	167	151	111	224	137	21	121	41	32	70	65.1	25.4	57.2	40.1	7.4	TX12	UCX12	UCTX12	
	71	22	46	178	160	113	220	135	23	123	41	31	71	71	26	81.9	52.2	7.6	T312	UC312	UCT312	
65	70	26	44	167	151	111	224	137	21	121	41	32	70	65.1	25.4	57.2	40.1	6.9	T213	UC213	UCT213	
	70	26	48	167	151	111	224	137	21	121	41	32	70	74.6	30.2	62.2	44.1	7.6	TX13	UCX13	UCTX13	
	80	26	50	190	170	116	238	146	25	134	43	32	70	75	30	92.7	59.9	9.3	T313	UC313	UCT313	
70	70	26	46	167	151	111	224	137	21	121	41	32	70	74.6	30.2	62.2	44.1	7.0	T214	UC214	UCT214	
	70	26	48	167	151	111	232	140	21	121	41	32	70	77.8	33.3	67.4	48.3	7.9	TX14	UCX14	UCTX14	
	90	26	52	202	180	130	252	155	25	140	46	36	85	78	33	104	68.2	11.1	T314	UC314	UCT314	
75	70	26	48	167	151	111	232	140	21	121	41	32	70	77.8	33.3	67.4	48.3	7.3	T215	UC215	UCT215	
	70	28	48	184	165	111	235	140	21	121	41	32	70	82.6	33.3	72.7	53.0	8.7	TX15	UCX15	UCTX15	
	90	26	55	216	192	132	262	160	25	150	46	36	85	82	32	113	77.2	13.0	T315	UC315	UCT315	
80	70	26	51	184	165	111	235	140	21	121	41	32	70	82.6	33.3	72.7	53.0	8.2	T216	UC216	UCT216	
	73	28	54	198	173	124	260	162	28	157	48	38	73	85.7	34.1	84.0	61.9	11.7	TX16	UCX16	UCTX16	
	102	30	60	230	204	150	282	174	28	160	53	42	98	86	34	123	86.7	16.2	T316	UC316	UCT316	
85	73	30	54	198	173	124	260	162	29	157	48	38	73	85.7	34.1	84.0	61.9	11.0	T217	UC217	UCT217	
	73	28	54	198	173	124	260	162	28	157	48	38	73	96	39.7	96.1	71.5	11.7	TX17	UCX17	UCTX17	
	102	32	64	240	214	152	298	183	30	170	53	42	98	96	40	133	96.8	19.0	T317	UC317	UCT317	
90	110	32	66	255	228	160	312	192	30	175	57	46	106	96	40	143	107	21.6	T318	UC318	UCT318	
95	110	35	72	270	240	165	322	197	31	180	57	46	106	103	41	153	119	24.9	T319	UC319	UCT319	
100	120	35	75	290	260	175	345	210	32	200	59	48	115	108	42	173	141	30.7	T320	UC320	UCT320	
105	120	35	75	290	260	175	345	210	32	200	59	48	115	112	44	184	153	36.7	T321	UC321	UCT321	
110	130	38	80	320	285	185	385	235	38	215	65	52	125	117	46	205	180	39.7	T322	UC322	UCT322	
120	140	45	90	355	320	210	432	267	42	230	70	60	140	126	51	207	185	54.4	T324	UC324	UCT324	
130	150	50	100	385	350	220	465	285	45	240	75	65	150	135	54	229	214	69.3	T326	UC326	UCT326	
140	155	50	100	415	380	230	515	315	50	255	80	70	160	145	59	253	246	85.1	T328	UC328	UCT328	

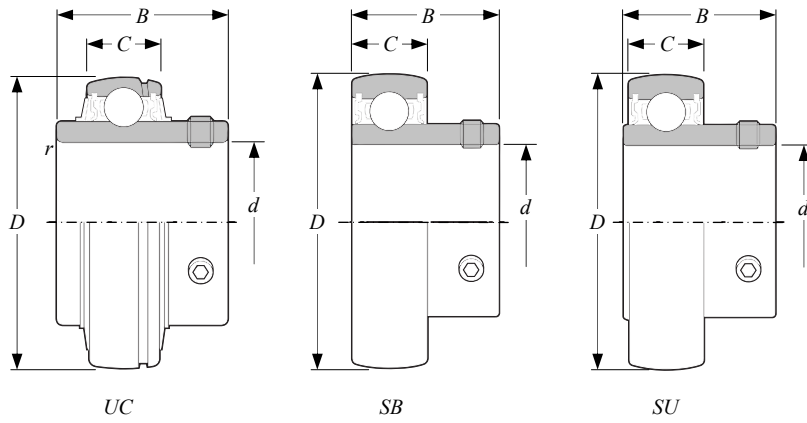
BEARING UNITS
Take Up Type Units, UKT

Table 151

Bore Diameter
20mm – 125mm



Principal Dimensions															Basic Load Ratings		Mass	Designations		
d	A	A ₁	A ₂	H	H ₁	H ₂	L	L ₁	L ₂	L ₃	N	N ₁	N ₂	B ₁	C _r	C _{0r}		Housing No.	Bearing No.	Unit No.
mm															kN	kN	kg			
20	32	12	24	89	76	51	97	62	10	51	19	16	32	29	14.0	7.85	0.88	T205	UK205	UKT205
	37	12	28	102	89	56	113	70	10	57	22	16	37	35	19.5	11.3	1.3	TX05	UKX05	UKTX05
	36	12	26	89	80	62	122	76	12	65	26	16	36	35	21.2	10.9	1.5	T305	UK305	UKT305
25	37	12	28	102	89	56	113	70	10	57	22	16	37	31	19.5	11.3	1.3	T206	UK206	UKT206
	37	12	30	102	89	64	129	78	13	64	22	16	37	38	25.7	15.4	1.7	TX06	UKX06	UKTX06
	41	16	28	100	90	70	137	85	14	74	28	18	41	38	26.7	15.0	1.9	T306	UK306	UKT306
30	37	12	30	102	89	64	129	78	13	64	22	16	37	35	25.7	15.4	1.7	T207	UK207	UKT207
	49	16	36	114	102	83	144	88	15	83	29	19	49	43	29.1	17.8	2.6	TX07	UKX07	UKTX07
	45	16	32	111	100	75	150	94	15	80	30	20	45	43	33.4	19.3	2.4	T307	UK307	UKT307
35	49	16	33	114	102	83	144	88	16	83	29	19	49	36	29.1	17.8	2.5	T208	1JK208	UKT208
	49	16	36	117	102	83	144	87	15	83	29	19	49	46	34.1	21.3	2.6	1X08	UKX08	UKT08
	50	18	34	124	112	83	162	100	17	89	32	22	50	46	40.7	24.0	3.0	T308	1JK308	UKT308
40	49	16	35	117	102	83	144	87	16	83	29	19	49	39	34.1	21.3	2.5	T209	1JK209	UKT209
	49	16	38	117	102	83	149	90	16	86	29	19	49	50	35.1	23.3	2.9	TX09	UKX09	UKTX09
	55	18	38	138	125	90	178	110	18	97	34	24	55	50	48.9	29.5	4.2	T309	1JK309	UKT309
45	49	16	37	117	102	83	149	90	16	86	29	19	49	42	35.1	23.3	2.7	T210	UK210	UKT210
	64	22	42	146	130	102	171	106	19	95	35	25	64	55	43.4	29.4	4.4	TX10	UKX10	UKTX10
	61	20	40	151	140	98	191	117	20	106	37	27	61	55	62.0	38.3	5.0	T310	UK310	UKT310
50	64	22	38	146	130	102	171	106	19	95	35	25	64	45	43.4	29.4	4.1	T211	UK211	UKT211
	64	22	44	146	130	102	194	119	19	102	35	32	64	59	52.4	36.2	5.1	TX11	UKX11	UKTX11
	66	22	44	163	150	105	207	127	21	115	39	29	66	59	71.6	45.0	6.4	T311	UK311	UKT311
55	64	22	42	146	130	102	194	119	19	102	35	32	64	47	52.4	36.2	4.8	T212	UK212	UKT212
	70	26	48	167	151	111	224	137	21	121	41	32	70	62	57.2	40.1	7.3	TX12	UKX12	UKTX12
	71	22	46	178	160	113	220	135	23	123	41	31	71	62	81.9	52.2	7.5	T312	UK312	UKT312
60	70	26	44	167	151	111	224	137	21	121	41	32	70	50	57.2	40.1	6.8	T213	UK213	UKT213
	70	26	48	167	151	111	224	137	21	121	41	32	70	65	62.2	44.1	7.2	TX13	UKX13	UKTX13
	80	26	50	190	170	116	238	146	25	134	43	32	70	65	92.7	59.9	9.4	T313	UK313	UKT313
65	70	26	48	167	151	111	232	140	21	121	41	32	70	55	67.4	48.3	7.4	T215	UK215	UKT215
	70	28	48	184	165	111	235	140	21	121	41	32	70	73	72.7	53.0	8.4	TX15	UKX15	UKTX15
	90	26	55	216	192	132	262	160	25	150	46	36	85	73	113	77.2	13.1	T315	UK315	UKT315
70	70	26	51	184	165	111	235	140	21	121	41	32	70	59	72.7	53.0	8.5	T216	UK216	UKT216
	73	28	54	198	173	124	260	162	28	157	48	38	73	78	84.0	61.9	11.8	TX16	UKX16	UKTX16
	102	30	60	230	204	150	282	174	28	160	53	42	98	78	123	86.7	16.3	T316	UK316	UKT316
75	73	30	54	198	173	124	260	162	29	157	48	38	73	63	84.0	61.9	11.2	T217	UK217	UKT217
	73	28	54	198	173	124	260	162	28	157	48	38	73	82	96.1	71.5	11.4	TX17	UKX17	UKTX17
	102	32	64	240	214	152	298	183	30	170	53	42	98	82	133	96.8	18.9	T317	UK317	UKT317
80	110	32	66	255	228	160	312	192	30	175	57	46	106	86	143	107	21.7	T318	UK318	UKT318
85	110	35	72	270	240	165	322	197	31	180	57	46	106	90	153	119	25.2	T319	UK319	UKT319
90	120	35	75	290	260	175	345	210	32	200	59	48	115	97	173	141	30.4	T320	UK320	UKT320
100	130	38	80	320	285	185	385	235	38	215	65	52	125	105	205	180	39.5	T322	UK322	UKT322
110	140	45	90	355	320	210	432	267	42	230	70	60	140	112	207	185	54.7	T324	UK324	UKT324
115	150	50	100	385	350	220	465	285	45	240	75	65	150	121	229	214	69.1	T326	UK326	UKT326
125	155	50	100	415	380	230	515	315	50	255	80	70	160	131	253	246	85.1	T328	UK328	UKT328



BALL BEARING INSERTS
UC, SB, SU Series

Table 152

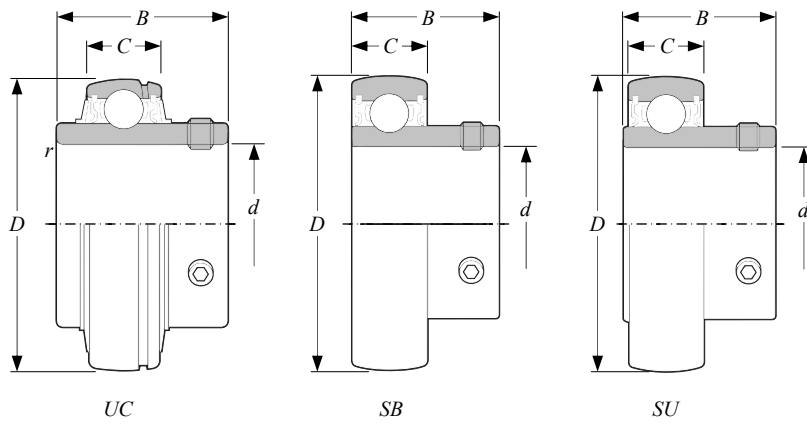
Bore Diameter
8mm – 70mm

Principal Dimensions					Basic Load Ratings		Factor	Mass	Designation
d	D	B	C	r (min)	C _r	C _{0r}	f ₀		Bearing No.
mm					kN			Kg	
8	22	12	7	-	3.27	1.37	12.4	0.012	SU08
10	26	15	8	-	4.55	1.95	12.3	0.024	S0000
12	28	15	8	-	5.10	2.40	13.2	0.026	S0001
	40	22	12	-	9.55	4.80	13.2	0.10	SB201
	47	31	16	0.6	12.8	6.65	13.2	0.21	UC201
15	32	16.5	9	-	5.60	2.85	13.9	0.038	S000201
	40	22	12	-	9.55	4.80	13.2	0.10	SB202
	47	31	16	0.6	12.8	6.65	13.2	0.19	UC202
17	35	17.5	10	-	6.00	3.25	14.4	0.050	S0003
	40	22	12	-	9.55	4.80	13.2	0.10	SB203
	47	31	16	0.6	12.8	6.65	13.2	0.18	UC 203
20	42	21	12	-	9.40	5.05	13.9	0.080	S0004
	47	25	14	-	12.8	6.65	13.2	0.15	SB204
	47	31	16	1	12.8	6.65	13.2	0.16	UC 204
25	47	22	12	-	10.1	5.85	14.5	0.10	S0005
	52	27	15	-	14.0	7.85	13.9	0.18	SB205
	52	34.1	17	1	14.0	7.85	13.9	0.20	UC 205
	62	38	22	1.1	21.2	10.9	12.6	0.45	UC 305
	62	38.1	19	1	19.5	11.3	13.9	0.39	UCX05
30	55	24.5	13	-	13.2	8.25	14.7	0.15	S0006
	62	30	16	-	19.5	11.3	13.9	0.27	SB206
	62	38.1	19	1	19.5	11.3	13.9	0.32	UC206
	72	42.9	20	1	25.7	15.4	13.9	0.58	UCX06
	72	43	24	1.1	26.7	15.0	13.3	0.56	UC306
35	72	32	17	-	25.7	15.4	13.9	0.42	SB207
	72	42.9	20	1.1	25.7	15.4	13.9	0.48	UC 207
	80	48	26	1.5	33.4	19.3	13.2	0.71	UC 307
	80	49.2	21	1.1	29.1	17.8	14.0	0.75	UCX07
40	80	34	18	-	29.1	17.8	14.0	0.60	SB208
	80	49.2	21	1.1	29.1	17.8	14.0	0.64	UC 208
	85	49.2	22	1.1	34.1	21.3	14.0	0.83	UCX08
	90	52	28	1.5	40.7	24.0	13.2	1.00	UC 308
45	85	49.2	22	1.1	34.1	21.3	14.0	0.68	UC 209
	90	51.6	24	1.1	35.1	23.3	14.4	0.95	UCX09
	100	57	30	1.5	48.9	29.5	13.3	1.33	UC309
50	90	51.6	24	1.1	35.1	23.3	14.4	0.80	UC210
	100	55.6	25	1.1	43.4	29.4	14.4	1.29	UCX10
	110	61	32	2	62.0	38.3	13.2	1.69	UC310
55	100	55.6	25	1.5	43.4	29.4	14.4	1.11	UC211
	110	65.1	27	1.5	52.4	36.2	14.4	1.80	UCX11
	120	66	34	2	71.6	45.0	13.2	1.90	UC311
60	110	65.1	27	1.5	52.4	36.2	14.4	1.54	UC212
	120	65.1	28	1.5	57.2	40.1	14.4	2.05	UCX12
	130	71	36	2.1	81.9	52.2	13.2	2.60	UC312
65	120	65.1	28	1.5	57.2	40.1	14.4	1.86	UC213
	125	74.6	30	1.5	62.2	44.1	14.5	2.52	UCX13
	140	75	38	2.1	92.7	59.9	13.2	3.16	UC313
70	125	74.6	30	1.5	62.2	44.1	14.5	2.05	UC214
	130	77.8	32	1.5	67.4	48.3	14.5	2.74	UCX14
	150	78	40	2.1	104	68.2	13.2	3.90	UC314

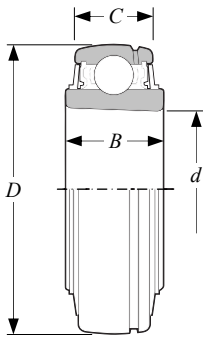
BALL BEARING INSERTS
UC, SB, SU Series

Table 153

Bore Diameter
75mm – 140mm



Principal Dimensions					Basic Load Ratings		Factor	Mass	Designation
d	D	B	C	r (min)	C _r	C _{0r}	f ₀		Bearing No.
mm					kN			Kg	
75	130	77.8	32	1.5	67.4	48.3	14.5	2.21	UC215
	140	82.6	33	1.5	72.7	53.0	14.6	3.41	UCX15
	160	82	42	2.1	113	77.2	13.2	4.70	UC315
80	140	82.6	33	2	72.7	53.0	14.6	2.79	UC216
	150	85.7	35	2	84.0	61.9	14.5	3.87	UCX16
	170	86	44	2.1	123	86.7	13.3	5.60	UC316
85	150	85.7	35	2	84.0	61.9	14.5	3.45	UC217
	160	96	38	2	96.1	71.5	14.5	5.05	UCX17
	180	96	46	3	133	96.8	13.3	6.90	UC317
90	160	96	38	2	96.1	71.5	14.5	4.35	UC 218
	190	96	48	3	143	107	13.3	7.87	UC 318
	170	104	40	2	109	81.9	14.4	6.00	UCX18
95	200	103	50	3	153	119	13.3	8.91	UC 319
100	190	117.5	43	2.1	133	105	14.4	8.56	UCX20
	215	108	54	3	173	141	13.2	11.2	UC 320
105	225	112	56	3	184	153	13.2	12.7	UC 321
110	240	117	60	3	205	180	13.2	15.1	UC 322
120	260	126	64	3	207	185	13.5	19.0	UC 324
130	280	135	68	4	229	214	13.6	23.6	UC 326
140	300	145	72	4	253	246	13.6	29.4	UC 328



BALL BEARING INSERTS
UK Series

Table 154

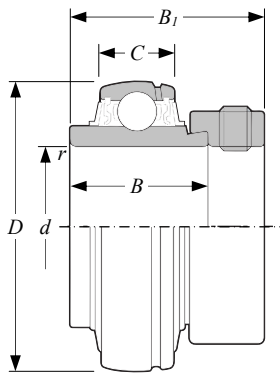
Bore Diameter
25mm – 140mm

Principal Dimensions				Basic Load Ratings		Factor	Mass	Designation
d	D	B	C	C_r	C_{0r}	f_0		Bearing No.
mm				kN			Kg	
25	52	21	17	14.0	7.85	13.9	0.16	UK205
25	62	23	19	19.5	11.3	13.9	0.27	UKX05
25	62	27	22	21.2	10.9	12.6	0.40	UK305
30	62	23	19	19.5	11.3	13.9	0.25	UK206
30	72	26	20	25.7	15.4	13.9	0.43	UKX06
30	72	30	24	26.7	15.0	13.3	0.47	UK306
35	72	26	20	25.7	15.4	13.9	0.37	UK207
35	80	27	21	29.1	17.8	14.0	0.53	UKX07
35	80	33	26	33.4	19.3	13.2	0.60	UK307
40	80	27	21	29.1	17.8	14.0	0.47	UK208
40	85	29	22	34.1	21.3	14.0	0.58	UKX08
40	90	35	28	40.7	24.0	13.2	0.80	UK308
45	85	29	22	34.1	21.3	14.0	0.52	UK209
45	90	29	24	35.1	23.3	14.4	0.67	UKX09
45	100	38	30	48.9	29.5	13.3	1.08	UK309
50	90	29	24	35.1	23.3	14.4	0.59	UK210
50	100	31	25	43.4	29.4	14.4	0.89	UKX10
50	110	40	32	62.0	38.3	13.2	1.38	UK310
55	100	31	25	43.4	29.4	14.4	0.80	UK211
55	110	33	27	52.4	36.2	14.4	1.15	UKX11
55	120	43	34	71.6	45.0	13.2	1.78	UK311
60	110	33	27	52.4	36.2	14.4	1.02	UK212
60	120	36	28	57.2	40.1	14.4	1.45	UKX12
60	130	47	36	81.9	52.2	13.2	2.06	UK312
65	120	36	28	57.2	40.1	14.4	1.34	UK213
65	125	40	30	62.2	44.1	14.5	1.62	UKX13
65	140	49	38	92.7	59.9	13.2	2.71	UK313
75	130	40	32	67.4	48.3	14.5	1.50	UK215
75	140	42	33	72.7	53.0	14.6	2.10	UKX15
75	160	55	42	113	77.2	13.2	3.80	UK315
80	140	42	33	72.7	53.0	14.6	1.96	UK216
80	150	44	35	84.0	61.9	14.5	2.64	UKX16
80	170	55	44	123	86.7	13.3	4.39	UK316
85	150	44	35	84.0	61.9	14.5	2.42	UK217
85	160	48	38	96.1	71.5	14.5	3.25	UKX17
85	180	60	46	133	96.8	13.3	5.30	UK317
90	160	48	38	96.1	71.5	14.5	2.90	UK218
90	170	50	40	109	81.9	14.4	3.80	UKX18
90	190	60	48	143	107	13.3	6.20	UK318
95	200	66	50	153	119	13.3	7.31	UK319
100	190	54	43	133	105	14.4	5.36	UKX20
100	215	68	54	173	141	13.2	8.70	UK320
110	240	78	60	205	180	13.2	12.2	UK322
120	260	87	64	207	185	13.5	16.1	UK324
130	280	87	68	229	214	13.6	18.8	UK326
140	300	97	72	253	246	13.6	23.9	UK328

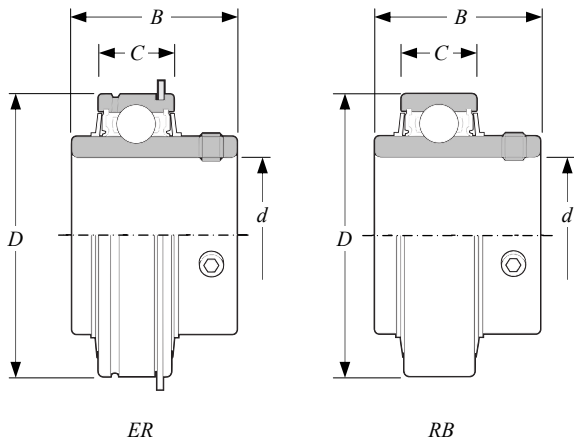
BALL BEARING INSERTS
NA Series

Table 155

Bore Diameter
20mm – 60mm



Principal Dimensions						Basic Load Ratings		Factor	Mass	Designation
d	D	B	B ₁	C	r (min)	C _r	C _{0r}	f ₀		Bearing No.
mm						kN			Kg	
20	47	34.2	43.7	16	1	12.8	6.65	13.2	0.22	NA204
25	52	34.9	44.4	17	1	14.0	7.85	13.9	0.25	NA205
30	62	36.5	48.4	19	1	19.5	11.3	13.9	0.41	NA206
35	72	37.6	51.1	20	1.1	25.7	15.4	13.9	0.61	NA207
40	80	42.8	56.3	21	1.1	29.1	17.8	14.0	0.78	NA208
45	85	42.8	56.3	22	1.1	34.1	21.3	14.0	0.85	NA209
50	90	49.2	62.7	24	1.1	35.1	23.3	14.4	1.01	NA210
55	100	55.5	71.4	25	1.5	43.4	29.4	14.4	1.39	NA211
60	110	61.9	77.8	27	1.5	52.4	36.2	14.4	1.87	NA212



BALL BEARING INSERTS
ER, RB Series

Table 156

Bore Diameter
12mm – 60mm

Principal Dimensions				Basic Load Ratings		Factor	Mass		Designation	
d	D	B	C	C _r	C _{0r}	f ₀	ER	RB	ER Series	RB Series
mm				kN			Kg			
12	47	31	16	12.8	6.65	13.2	0.22	0.22	ER201	RB201
15	47	31	16	12.8	6.65	13.2	0.22	0.22	ER202	RB202
17	47	31	16	12.8	6.65	13.2	0.22	0.22	ER203	RB203
20	47	31	16	12.8	6.65	13.2	0.22	0.22	ER204	RB204
25	52	34.1	19	14.0	7.85	13.9	0.27	0.26	ER205	RB205
30	62	38.1	22	19.5	11.3	13.9	0.39	0.38	ER206	RB206
35	72	42.9	24	25.7	15.4	13.9	0.63	0.62	ER207	RB207
40	80	49.2	28	29.1	17.8	14.0	0.81	0.78	ER208	RB208
45	85	49.2	28	34.1	21.3	14.0	0.90	-	ER209	-
50	90	51.6	28	35.1	23.3	14.4	0.98	-	ER210	-
55	100	55.6	30	43.4	29.4	14.4	1.41	-	ER211	-
60	110	65.1	32	52.4	36.2	14.4	1.89	-	ER212	-

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APPENDICES CONTENTS

Conversion Tables, [N – kgf] [kg – lb] [inch – mm]

Tolerance Tables for Shaft Diameters

Tolerance Tables for Housing Bore Diameters



CONVERSION TABLE [N-kgf] [kg-lb]

<i>N</i>	-	<i>kgf</i>	<i>N</i>	-	<i>kgf</i>
9.8066	1	0.1020	500.14	51	5.2006
19.613	2	0.2039	509.95	52	5.3025
29.420	3	0.3059	519.75	53	5.4045
39.227	4	0.4079	529.56	54	5.5065
49.033	5	0.5099	539.37	55	5.6084
58.840	6	0.6118	549.17	56	5.7104
68.647	7	0.7138	558.98	57	5.8124
78.453	8	0.8158	568.79	58	5.9144
88.260	9	0.9177	578.59	59	6.0163
98.066	10	1.0197	588.40	60	6.1183
107.87	11	1.1217	598.21	61	6.2203
117.68	12	1.2237	608.01	62	6.3222
127.49	13	1.3256	617.82	63	6.4242
137.29	14	1.4276	627.63	64	6.5262
147.10	15	1.5296	637.43	65	6.6282
156.91	16	1.6315	647.24	66	6.7301
166.71	17	1.7335	657.05	67	6.8321
176.52	18	1.8355	666.85	68	6.9341
186.33	19	1.9375	676.66	69	7.0360
196.13	20	2.0394	686.47	70	7.1380
205.94	21	2.1414	696.27	71	7.2400
215.75	22	2.2434	706.08	72	7.3420
225.55	23	2.3453	715.89	73	7.4439
235.36	24	2.4473	725.69	74	7.5459
245.17	25	2.5493	735.50	75	7.6479
254.97	26	2.6513	745.31	76	7.7498
264.78	27	2.7532	755.11	77	7.8518
274.59	28	2.8552	764.92	78	7.9538
284.39	29	2.9572	774.73	79	8.0558
294.20	30	3.0591	784.53	80	8.1577
304.01	31	3.1611	794.34	81	8.2597
313.81	32	3.2631	804.15	82	8.3617
323.62	33	3.3651	813.95	83	8.4636
333.43	34	3.4670	823.76	84	8.5656
343.23	35	3.5690	833.57	85	8.6676
353.04	36	3.6710	843.37	86	8.7696
362.85	37	3.7729	853.18	87	8.8715
372.65	38	3.8749	862.99	88	8.9735
382.46	39	3.9769	872.79	89	9.0755
392.27	40	4.0789	882.60	90	9.1774
402.07	41	4.1808	892.41	91	9.2794
411.88	42	4.2828	902.21	92	9.3814
421.69	43	4.3848	912.02	93	9.4834
431.49	44	4.4868	921.83	94	9.5853
441.30	45	4.5887	931.63	95	9.6873
451.11	46	4.6907	941.44	96	9.7893
460.91	47	4.7927	951.25	97	9.8912
470.72	48	4.8946	961.05	98	9.9932
480.53	49	4.9966	970.86	99	10.095
490.33	50	5.0986	980.07	100	10.197

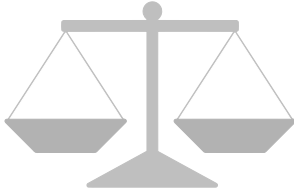
<i>kg</i>	-	<i>lb</i>	<i>kg</i>	-	<i>lb</i>
0.454	1	2.205	23.133	51	112.44
0.907	2	4.409	23.587	52	114.64
1.361	3	6.614	24.040	53	116.84
1.814	4	8.818	24.494	54	119.05
2.268	5	11.023	24.948	55	121.25
2.722	6	13.228	25.401	56	123.46
3.175	7	15.432	25.855	57	125.66
3.629	8	17.637	26.308	58	127.87
4.082	9	19.842	26.762	59	130.07
4.536	10	22.046	27.216	60	132.28
4.990	11	24.251	27.669	61	134.48
5.443	12	26.455	28.123	62	136.69
5.897	13	28.660	28.576	63	138.89
6.350	14	30.865	29.030	64	141.10
6.804	15	33.069	29.484	65	143.30
7.257	16	35.274	29.937	66	145.51
7.711	17	37.479	30.391	67	147.71
8.165	18	39.683	30.844	68	149.91
8.618	19	41.888	31.298	69	152.12
9.072	20	44.092	31.751	70	154.32
9.525	21	46.297	32.205	71	156.53
9.979	22	48.502	32.659	72	158.73
10.433	23	50.706	33.112	73	160.94
10.886	24	52.911	33.566	74	163.14
11.340	25	55.116	34.019	75	165.35
11.793	26	57.320	34.473	76	167.55
12.247	27	59.525	34.927	77	169.76
12.701	28	61.729	35.380	78	171.96
13.154	29	63.934	35.834	79	174.17
13.608	30	66.139	36.287	80	176.37
14.061	31	68.343	36.741	81	178.57
14.515	32	70.548	37.195	82	180.78
14.969	33	72.753	37.648	83	182.98
15.422	34	74.957	38.102	84	185.19
15.876	35	77.162	38.555	85	187.39
16.329	36	79.366	39.009	86	189.60
16.783	37	81.571	39.463	87	191.80
17.237	38	83.776	39.916	88	194.01
17.690	39	85.980	40.370	89	196.21
18.144	40	88.185	40.823	90	198.42
18.597	41	90.390	41.277	91	200.62
19.051	42	92.594	41.730	92	202.83
19.504	43	94.799	42.184	93	205.03
19.958	44	97.003	42.638	94	207.23
20.412	45	99.208	43.091	95	209.44
20.865	46	101.41	43.545	96	211.64
21.319	47	103.62	43.998	97	213.85
21.772	48	105.82	44.452	98	216.05
22.226	49	108.03	44.906	99	218.26
22.680	50	110.23	45.360	100	220.46



CONVERSION TABLE [Inch-mm]

Inch – mm
1” – 10”

		<i>Inches</i>										
<i>Inch</i>		<i>0</i>	<i>1</i>	<i>2</i>	<i>3</i>	<i>4</i>	<i>5</i>	<i>6</i>	<i>7</i>	<i>8</i>	<i>9</i>	<i>10</i>
<i>Fraction</i>	<i>Decimal</i>	<i>mm</i>										
0	0	0	25.4000	50.8000	76.2000	101.6000	127.0000	152.4000	177.8000	203.2000	228.6000	254.0000
1/64	0.015625	0.3969	25.7969	51.1969	76.5969	101.9969	127.3969	152.7969	178.1969	203.5969	228.9969	254.3969
1/32	0.03125	0.7938	26.1938	51.5938	76.9938	102.3938	127.7938	153.1938	178.5938	203.9938	229.3938	254.7938
3/64	0.046875	1.1906	26.5906	51.9906	77.3906	102.7906	128.1906	153.5906	178.9906	204.3906	229.7906	255.1906
1/16	0.0625	1.5875	26.9875	52.3875	77.7875	103.1875	128.5875	153.9875	179.3875	204.7875	230.1875	255.5875
5/64	0.078125	1.9844	27.3844	52.7844	78.1844	103.5844	128.9844	154.3844	179.7844	205.1844	230.5844	255.9844
3/32	0.09375	2.3812	27.7812	53.1812	78.5812	103.9812	129.3812	154.7812	180.1812	205.5812	230.9812	256.3812
7/64	0.109375	2.7781	28.1781	53.5781	78.9781	104.3781	129.7781	155.1781	180.5781	205.9781	231.3781	256.7781
1/8	0.125	3.1750	28.5750	53.9750	79.3750	104.7750	130.1750	155.5750	180.9750	206.3750	231.7750	257.1750
9/64	0.140625	3.5719	28.9719	54.3719	79.7719	105.1719	130.5719	155.9719	181.3719	206.7719	232.1719	257.5719
5/32	0.15625	3.9688	29.3688	54.7688	80.1688	105.5688	130.9688	156.3688	181.7688	207.1688	232.5688	257.9688
11/64	0.171875	4.3656	29.7656	55.1656	80.5656	105.9656	131.3656	156.7656	182.1656	207.5656	232.9656	258.3656
3/16	0.1875	4.7625	30.1625	55.5625	80.9625	106.3625	131.7625	157.1625	182.5625	207.9625	233.3625	258.7625
13/64	0.203125	5.1594	30.5594	55.9594	81.3594	106.7594	132.1594	157.5594	182.9594	208.3594	233.7594	259.1594
7/32	0.21875	5.5562	30.9562	56.3562	81.7562	107.1562	132.5562	157.9562	183.3562	208.7562	234.1562	259.5562
15/64	0.234375	5.9531	31.3531	56.7531	82.1531	107.5531	132.9531	158.3531	183.7531	209.1531	234.5531	259.9531
1/4	0.25	6.3500	31.7500	57.1500	82.5500	107.9500	133.3500	158.7500	184.1500	209.5500	234.9500	260.3500
17/64	0.265625	6.7469	32.1469	57.5469	82.9469	108.3469	133.7469	159.1469	184.5469	209.9469	235.3469	260.7469
9/32	0.28125	7.1438	32.5438	57.9438	83.3438	108.7438	134.1438	159.5438	184.9438	210.3438	235.7438	261.1438
19/64	0.296875	7.5406	32.9406	58.3406	83.7406	109.1406	134.5406	159.9406	185.3406	210.7406	236.1406	261.5406
5/16	0.3125	7.9375	33.3375	58.7375	84.1375	109.5375	134.9375	160.3375	185.7375	211.1375	236.5375	261.9375
21/64	0.328125	8.3344	33.7344	59.1344	84.5344	109.9344	135.3344	160.7344	186.1344	211.5344	236.9344	262.3344
11/32	0.34375	8.7312	34.1312	59.5312	84.9312	110.3312	135.7312	161.1312	186.5312	211.9312	237.3312	262.7312
23/64	0.359375	9.1281	34.5281	59.9281	85.3281	110.7281	136.1281	161.5281	186.9281	212.3281	237.7281	263.1281
3/8	0.375	9.5250	34.9250	60.3250	85.7250	111.1250	136.5250	161.9250	187.3250	212.7250	238.1250	263.5250
25/64	0.390625	9.9219	35.3219	60.7219	86.1219	111.5219	136.9219	162.3219	187.7219	213.1219	238.5219	263.9219
13/32	0.40625	10.3188	35.7188	61.1188	86.5188	111.9188	137.3188	162.7188	188.1188	213.5188	238.9188	264.3188
27/64	0.421875	10.7156	36.1156	61.5156	86.9156	112.3156	137.7156	163.1156	188.5156	213.9156	239.3156	264.7156
7/16	0.4375	11.1125	36.5125	61.9125	87.3125	112.7125	138.1125	163.5125	188.9125	214.3125	239.7125	265.1125
29/64	0.453125	11.5094	36.9094	62.3094	87.7094	113.1094	138.5094	163.9094	189.3094	214.7094	240.1094	265.5094
15/32	0.46875	11.9062	37.3062	62.7062	88.1062	113.5062	138.9062	164.3062	189.7062	215.1062	240.5062	265.9062
31/64	0.484375	12.3031	37.7031	63.1031	88.5031	113.9031	139.3031	164.7031	190.1031	215.5031	240.9031	266.3031
1/2	0.5	12.7000	38.1000	63.5000	88.9000	114.3000	139.7000	165.1000	190.5000	215.9000	241.3000	266.7000
33/64	0.515625	13.0969	38.4969	63.8969	89.2969	114.6969	140.0969	165.4969	190.8969	216.2969	241.6969	267.0969
17/32	0.53125	13.4938	38.8938	64.2938	89.6938	115.0938	140.4938	165.8938	191.2938	216.6938	242.0938	267.4938
35/64	0.546875	13.8906	39.2906	64.6906	90.0906	115.4906	140.8906	166.2906	191.6906	217.0906	242.4906	267.8906
9/16	0.5625	14.2875	39.6875	65.0875	90.4875	115.8875	141.2875	166.6875	192.0875	217.4875	242.8875	268.2875
37/64	0.578125	14.6844	40.0844	65.4844	90.8844	116.2844	141.6844	167.0844	192.4844	217.8844	243.2844	268.6844
19/32	0.59375	15.0812	40.4812	65.8812	91.2812	116.6812	142.0812	167.4812	192.8812	218.2812	243.6812	269.0812
39/64	0.609375	15.4781	40.8781	66.2781	91.6781	117.0781	142.4781	167.8781	193.2781	218.6781	244.0781	269.4781
5/8	0.625	15.8750	41.2750	66.6750	92.0750	117.4750	142.8750	168.2750	193.6750	219.0750	244.4750	269.8750
41/64	0.640625	16.2719	41.6719	67.0719	92.4719	117.8719	143.2719	168.6719	194.0719	219.4719	244.8719	270.2719
21/32	0.65625	16.6688	42.0688	67.4688	92.8688	118.2688	143.6688	169.0688	194.4688	219.8688	245.2688	270.6688
43/64	0.671875	17.0656	42.4656	67.8656	93.2656	118.6656	144.0656	169.4656	194.8656	220.2656	245.6656	271.0656
11/16	0.6875	17.4625	42.8625	68.2625	93.6625	119.0625	144.4625	169.8625	195.2625	220.6625	246.0625	271.4625
45/64	0.703125	17.8594	43.2594	68.6594	94.0594	119.4594	144.8594	170.2594	195.6594	221.0594	246.4594	271.8594
23/32	0.71875	18.2562	43.6562	69.0562	94.4562	119.8562	145.2562	170.6562	196.0562	221.4562	246.8562	272.2562
47/64	0.734375	18.6531	44.0531	69.4531	94.8531	120.2531	145.6531	171.0531	196.4531	221.8531	247.2531	272.6531
3/4	0.75	19.0500	44.4500	69.8500	95.2500	120.6500	146.0500	171.4500	196.8500	222.2500	247.6500	273.0500
49/64	0.765625	19.4469	44.8469	70.2469	95.6469	121.0469	146.4469	171.8469	197.2469	222.6469	248.0469	273.4469
25/32	0.78125	19.8438	45.2438	70.6438	96.0438	121.4438	146.8438	172.2438	197.6438	223.0438	248.4438	273.8438
51/64	0.796875	20.2406	45.6406	71.0406	96.4406	121.8406	147.2406	172.6406	198.0406	223.4406	248.8406	274.2406
13/16	0.8125	20.6375	46.0375	71.4375	96.8375	122.2375	147.6375	173.0375	198.4375	223.8375	249.2375	274.6375
53/64	0.828125	21.0344	46.4344	71.8344	97.2344	122.6344	148.0344	173.4344	198.8344	224.2344	249.6344	275.0344
27/32	0.84375	21.4312	46.8312	72.2312	97.6312	123.0312	148.4312	173.8312	199.2312	224.6312	250.0312	275.4312
55/64	0.859375	21.8281	47.2281	72.6281	98.0281	123.4281	148.8281	174.2281	199.6281	225.0281	250.4281	275.8281
7/8	0.875	22.2250	47.6250	73.0250	98.4250	123.8250	149.2250	174.6250	200.0250	225.4250	250.8250	276.2250
57/64	0.890625	22.6219	48.0219	73.4219	98.8219	124.2219	149.6219	175.0219	200.4219	225.8219	251.2219	276.6219
29/32	0.90625	23.0188	48.4188	73.8188	99.2188	124.6188	150.0188	175.4188	200.8188	226.2188	251.6188	277.0188
59/64	0.921875	23.4156	48.8156	74.2156	99.6156	125.0156	150.4156	175.8156	201.2156	226.6156	252.0156	277.4156
15/16	0.9375	23.8125	49.2125	74.6125	100.0125	125.4125	150.8125	176.2125	201.6125	227.0125	252.4125	277.8125
61/64	0.953125	24.2094	49.6094	75.0094	100.4094	125.8094	151.2094	176.6094	202.0094	227.4094	252.8094	278.2094
31/32	0.96875	24.6062	50.0062	75.4062	100.8062	126.2062	151.6062	177.0062	202.4062	227.8062	253.2062	278.6062
63/64	0.984375	25.0031	50.4031	75.8031	101.2031	126.6031	152.0031	177.4031	202.8031	228.2031	253.6031	279.0031



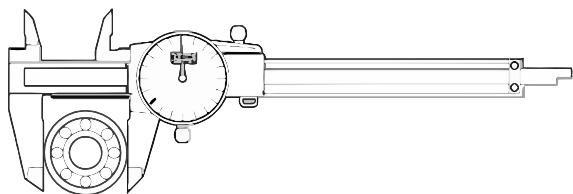
CONVERSION TABLE

Inch – mm
1” – 40”

		<i>Inches</i>									
<i>Inch</i>		<i>11</i>	<i>12</i>	<i>13</i>	<i>14</i>	<i>15</i>	<i>16</i>	<i>17</i>	<i>18</i>	<i>19</i>	<i>20</i>
<i>Fraction</i>	<i>Decimal</i>	<i>mm</i>									
0	0.0000	279.400	304.800	330.200	355.600	381.000	406.400	431.800	457.200	482.600	508.000
1 / 16	0.0625	280.988	306.388	331.788	357.188	382.588	407.988	433.388	458.788	484.188	509.588
1 / 8	0.1250	282.575	307.975	333.375	358.775	384.175	409.575	434.975	460.375	485.775	511.175
3 / 16	0.1875	284.162	309.562	334.962	360.362	385.762	411.162	436.562	461.962	487.362	512.762
1 / 4	0.2500	285.750	311.150	336.550	361.950	387.350	412.750	438.150	463.550	488.950	514.350
5 / 16	0.3125	287.338	312.738	338.138	363.538	388.938	414.338	439.738	465.138	490.538	515.938
3 / 8	0.3750	288.925	314.325	339.725	365.125	390.525	415.925	441.325	466.725	492.125	517.525
7 / 16	0.4375	290.512	315.912	341.312	366.712	392.112	417.512	442.912	468.312	493.712	519.112
1 / 2	0.5000	292.100	317.500	342.900	368.300	393.700	419.100	444.500	469.900	495.300	520.700
9 / 16	0.5625	293.688	319.088	344.488	369.888	395.288	420.688	446.088	471.488	496.888	522.288
5 / 8	0.6250	295.275	320.675	346.075	371.475	396.875	422.275	447.675	473.075	498.475	523.875
11 / 16	0.6875	296.862	322.262	347.662	373.062	398.462	423.862	449.262	474.662	500.062	525.462
3 / 4	0.7500	298.450	323.850	349.250	374.650	400.050	425.450	450.850	476.250	501.650	527.050
13 / 16	0.8125	300.038	325.438	350.838	376.238	401.638	427.038	452.438	477.838	503.238	528.638
7 / 8	0.8750	301.625	327.025	352.425	377.825	403.225	428.625	454.025	479.425	504.825	530.225
15 / 16	0.9375	303.212	328.612	354.012	379.412	404.812	430.212	455.612	481.012	506.412	531.812

		<i>Inches</i>									
<i>Inch</i>		<i>21</i>	<i>22</i>	<i>23</i>	<i>24</i>	<i>25</i>	<i>26</i>	<i>27</i>	<i>28</i>	<i>29</i>	<i>30</i>
<i>Fraction</i>	<i>Decimal</i>	<i>mm</i>									
0	0.0000	533.400	558.800	584.200	609.600	635.000	660.400	685.800	711.200	736.600	762.000
1 / 16	0.0625	534.988	560.388	585.788	611.188	636.588	661.988	687.388	712.788	738.188	763.588
1 / 8	0.1250	536.575	561.975	587.375	612.775	638.175	663.575	688.975	714.375	739.775	765.175
3 / 16	0.1875	538.162	563.562	588.962	614.362	639.762	665.162	690.562	715.962	741.362	766.762
1 / 4	0.2500	539.750	565.150	590.550	615.950	641.350	666.750	692.150	717.550	742.950	768.350
5 / 16	0.3125	541.338	566.738	592.138	617.538	642.938	668.338	693.738	719.138	744.538	769.938
3 / 8	0.3750	542.925	568.325	593.725	619.125	644.525	669.925	695.325	720.725	746.125	771.525
7 / 16	0.4375	544.512	569.912	595.312	620.712	646.112	671.512	696.912	722.312	747.712	773.112
1 / 2	0.5000	546.100	571.500	596.900	622.300	647.700	673.100	698.500	723.900	749.300	774.700
9 / 16	0.5625	547.688	573.088	598.488	623.888	649.288	674.688	700.088	725.488	750.888	776.288
5 / 8	0.6250	549.275	574.675	600.075	625.475	650.875	676.275	701.675	727.075	752.475	777.875
11 / 16	0.6875	550.862	576.262	601.662	627.062	652.462	677.862	703.262	728.662	754.062	779.462
3 / 4	0.7500	552.450	577.850	603.250	628.650	654.050	679.450	704.850	730.250	755.650	781.050
13 / 16	0.8125	554.038	579.438	604.838	630.238	655.638	681.038	706.438	731.838	757.238	782.638
7 / 8	0.8750	555.625	581.025	606.425	631.825	657.225	682.625	708.025	733.425	758.825	784.225
15 / 16	0.9375	557.212	582.612	608.012	633.412	658.812	684.212	709.612	735.012	760.412	785.812

		<i>Inches</i>									
<i>Inch</i>		<i>31</i>	<i>32</i>	<i>33</i>	<i>34</i>	<i>35</i>	<i>36</i>	<i>37</i>	<i>38</i>	<i>39</i>	<i>40</i>
<i>Fraction</i>	<i>Decimal</i>	<i>mm</i>									
0	0.0000	787.400	812.800	838.200	863.600	889.000	914.400	939.800	965.200	990.600	1016.000
1 / 16	0.0625	788.988	814.388	839.788	865.188	890.588	915.988	941.388	966.788	992.188	1017.588
1 / 8	0.1250	790.575	815.975	841.375	866.775	892.175	917.575	942.975	968.375	993.775	1019.175
3 / 16	0.1875	792.162	817.562	842.962	868.362	893.762	919.162	944.562	969.962	995.362	1020.762
1 / 4	0.2500	793.750	819.150	844.550	869.950	895.350	920.750	946.150	971.550	996.950	1022.350
5 / 16	0.3125	795.338	820.738	846.138	871.538	896.938	922.338	947.738	973.138	998.538	1023.938
3 / 8	0.3750	796.925	822.325	847.725	873.125	898.525	923.925	949.325	974.725	1000.125	1025.525
7 / 16	0.4375	798.512	823.912	849.312	874.712	900.112	925.512	950.912	976.312	1001.712	1027.112
1 / 2	0.5000	800.100	825.500	850.900	876.300	901.700	927.100	952.500	977.900	1003.300	1028.700
9 / 16	0.5625	801.688	827.088	852.488	877.888	903.288	928.688	954.088	979.488	1004.888	1030.288
5 / 8	0.6250	803.275	828.675	854.075	879.475	904.875	930.275	955.675	981.075	1006.475	1031.875
11 / 16	0.6875	804.862	830.262	855.662	881.062	906.462	931.862	957.262	982.662	1008.062	1033.462
3 / 4	0.7500	806.450	831.850	857.250	882.650	908.050	933.450	958.850	984.250	1009.650	1035.050
13 / 16	0.8125	808.038	833.438	858.838	884.238	909.638	935.038	960.438	985.838	1011.238	1036.638
7 / 8	0.8750	809.625	835.025	860.425	885.825	911.225	936.625	962.025	987.425	1012.825	1038.225
15 / 16	0.9375	811.212	836.612	862.012	887.412	912.812	938.212	963.621	989.012	1014.412	1039.812

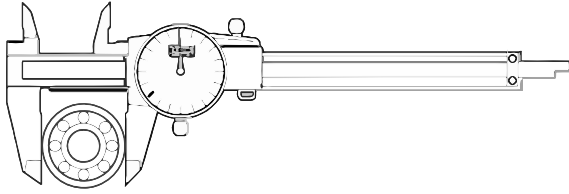


TOLERANCE TABLES

Tolerances for Shaft Diameters

units : μm

Diameter (mm)		Δ_{dmp}	d6	e6	f6	g5	g6	h5	h6	h7	h8	h9	h10	js5	js6	j5	j6	j7	k5	k6	k7	m5	m6	n6	p6
over	incl																								
3	6	0	-30	-20	-10	-4	-4	0	0	0	0	0	0	± 2.5	± 4.0	+3	+6	+8	+6	+9	+13	+9	+12	+16	+20
		-8	-38	-28	-18	-9	-12	-5	-8	-12	-18	-30	-48			-2	-2	-4	+1	+1	+1	+4	+4	+8	+12
6	10	0	-40	-25	-13	-5	-5	0	0	0	0	0	0	± 3.0	± 4.5	+4	+7	+10	+7	+10	+16	+12	+15	+19	+24
		-8	-49	-34	-22	-11	-14	-6	-9	-15	-22	-36	-58			-2	-2	-5	+1	+1	+1	+6	+6	+10	+15
10	18	0	-50	-32	-16	-6	-6	0	0	0	0	0	0	± 4.0	± 5.5	+5	+8	+12	+9	+12	+19	+15	+18	+23	+29
		-8	-61	-43	-27	-14	-17	-8	-11	-18	-27	-43	-70			-3	-3	-6	+1	+1	+1	+7	+7	+12	+18
18	30	0	-65	-40	-20	-7	-7	0	0	0	0	0	0	± 4.5	± 6.5	+5	+9	+13	+11	+15	+23	+17	+21	+28	+35
		-10	-78	-53	-33	-16	-20	-9	-13	-21	-33	-52	-84			-4	-4	-8	+2	+2	+2	+8	+8	+15	+22
30	50	0	-80	-50	-25	-9	-9	0	0	0	0	0	0	± 5.5	± 8.0	+6	+11	+15	+13	+18	+27	+20	+25	+33	+42
		-12	-96	-66	-41	-20	-25	-11	-16	-25	-39	-62	-100			-5	-5	-10	+2	+2	+2	+9	+9	+17	+26
50	80	0	-100	-60	-30	-10	-10	0	0	0	0	0	0	± 6.5	± 9.5	+6	+12	+18	+15	+21	+32	+24	+30	+39	+51
		-15	-119	-79	-49	-23	-29	-13	-19	-30	-46	-74	-120			-7	-7	-12	+2	+2	+2	+11	+11	+20	+32
80	120	0	-120	-72	-36	-12	-12	0	0	0	0	0	0	± 7.5	± 11.0	+6	+13	+20	+18	+25	+38	+28	+35	+45	+59
		-20	-142	-94	-58	-27	-34	-15	-22	-35	-54	-87	-140			-9	-9	-15	+3	+3	+3	+13	+13	+23	+37
120	180	0	-145	-85	-43	-14	-14	0	0	0	0	0	0	± 9.0	± 12.5	+7	+14	+22	+21	+28	+43	+33	+40	+52	+68
		-25	-170	-110	-68	-32	-39	-18	-25	-40	-63	-100	-160			-11	-11	-18	+3	+3	+3	+15	+15	+27	+43
180	250	0	-170	-100	-50	-15	-15	0	0	0	0	0	0	± 10.0	± 14.5	+7	+16	+25	+24	+33	+50	+37	+46	+60	+79
		-30	-199	-129	-79	-35	-44	-20	-29	-46	-72	-115	-185			-13	-13	-21	+4	+4	+4	+17	+17	+31	+50
250	315	0	-190	-110	-56	-17	-17	0	0	0	0	0	0	± 11.5	± 16.0	+7	± 16	± 26	+27	+36	+56	+43	+52	+66	+88
		-35	-222	-142	-88	-40	-49	-23	-32	-52	-81	-130	-210			-16			+4	+4	+4	+20	+20	+34	+56
315	400	0	-210	-125	-62	-18	-18	0	0	0	0	0	0	± 12.5	± 18.0	+7	± 18	+29	+29	+40	+61	+46	+57	+73	+98
		-40	-246	-161	-98	-43	-54	-25	-36	-57	-89	-140	-230			-18		-28	+4	+4	+4	+21	+21	+37	+62
400	500	0	-230	-135	-68	-20	-20	0	0	0	0	0	0	± 13.5	± 20.0	+7	± 20	+31	+32	+45	+68	+50	+63	+80	+108
		-45	-270	-175	-108	-47	-60	-27	-40	-63	-97	-155	-250			-20		-32	+5	+5	+5	+23	+23	+40	+68
500	630	0	-260	-145	-76	-	-22	-	0	0	0	0	0	-	± 22.0	-	-	-	-	+44	+70	-	+70	+88	+122
		-50	-304	-189	-120	-	-66	-	-44	-70	-110	-175	-280							0	0	-	+26	+44	+78
630	800	0	-290	-160	-80	-	-24	-	0	0	0	0	0	-	± 25.0	-	-	-	-	+50	+80	-	+80	+100	+138
		-75	-340	-210	-130	-	-74	-	-50	-80	-125	-200	-320							0	0	-	+30	+50	+88
800	1000	0	-320	-170	-86	-	-26	-	0	0	0	0	0	-	± 28.0	-	-	-	-	+56	+90	-	+90	+112	+156
		-100	-376	-226	-142	-	-82	-	-56	-90	-140	-230	-360							0	0	-	+34	+56	+100
1000	1250	0	-350	-195	-98	-	-28	-	0	0	0	0	0	-	± 33.0	-	-	-	-	+66	+105	-	+106	+132	+186
		-125	-416	-261	-164	-	-94	-	-66	-105	-165	-260	-420							0	0	-	+40	+66	+120
1250	1600	0	-390	-220	-110	-	-30	-	0	0	0	0	0	-	± 39.0	-	-	-	-	+78	+125	-	+126	+156	+218
		-160	-468	-298	-188	-	-108	-	-78	-125	-195	-310	-500							0	0	-	+48	+78	+140
1600	2000	0	-430	-240	-120	-	-32	-	0	0	0	0	0	-	± 46.0	-	-	-	-	+92	+150	-	+150	+184	+262
		-200	-522	-332	-212	-	-124	-	-92	-150	-230	-370	-600							0	0	-	+58	+92	+170



TOLERANCE TABLES
Tolerances for
Housing Bore Diameters

units : μm

Diameters (mm)		Δ_{Dmp}	E6	F6	F7	G6	G7	H6	H7	H8	J6	J7	JS6	JS7	K5	K6	K7	M5	M6	M7	N5	N6	N7	P6	P7
over	incl																								
10	18	0 -8	+43 +32	+27 +16	+34 +16	+17 +6	+24 +6	+11 0	+18 0	+27 0	+6 -5	+10 -8	± 5.5	± 9	+2 -6	+2 -9	+6 -12	-4 -12	-4 -15	0 -18	-9 -17	-9 -20	-5 -23	-15 -26	-11 -29
18	30	0 -9	+53 +40	+33 +20	+41 +20	+20 +7	+28 +7	+13 0	+21 0	+33 0	+8 -5	+12 -9	± 6.5	± 10.5	+1 -8	+2 -11	+6 -15	-5 -14	-4 -17	0 -21	-12 -21	-11 -24	-7 -28	-18 -31	-14 -35
30	50	0 -11	+66 +50	+41 +25	+50 +25	+25 +9	+34 +9	+16 0	+25 0	+39 0	+10 -6	+14 -11	± 8	± 12.5	+2 -9	+3 -13	+7 -18	-5 -16	-4 -20	0 -25	-13 -24	-12 -28	-8 -33	-21 -37	-17 -42
50	80	0 -13	+79 +60	+49 +30	+60 +30	+29 +10	+40 +10	+19 0	+30 0	+46 -6	+13 -12	+18	± 9.5	± 15	-10	-15	-21	-19	-24	-30	-28	-33	-39	-45	-51
80	120	0 -15	+94 +72	+58 +36	+71 +36	+34 +12	+47 +12	+22 0	+35 0	+54 0	+16 -6	+22 -13	± 11	± 17.5	+2 -13	+4 -18	+10 -25	-8 -23	-6 -28	0 -35	-18 -33	-16 -38	-10 -45	-30 -52	-24 -59
120	150	0 -18	+110 +85	+68 +43	+83 +43	+39 +14	+54 +14	+25 0	+40 0	+63 0	+18 -7	+26 -14	± 12.5	± 20	+3 -15	+4 -21	+12 -28	-9 -27	-8 -33	0 -40	-21 -39	-20 -45	-12 -52	-36 -61	-28 -68
150	180	0 -25	+110 +85	+68 +43	+83 +43	+39 +14	+54 +14	+25 0	+40 0	+63 0	+18 -7	+26 -14	± 12.5	± 20	+3 -15	+4 -21	+12 -28	-9 -27	-8 -33	0 -40	-21 -39	-20 -45	-12 -52	-36 -61	-28 -68
180	250	0 -30	+129 +100	+79 +50	+96 +50	+44 +15	+61 +15	+29 0	+46 0	+72 0	+22 -7	+30 -16	± 14.5	± 23	+2 -18	+5 -24	+13 -33	-11 -31	-8 -37	0 -46	-25 -45	-22 -51	-14 -60	-41 -70	-33 -79
250	315	0 -35	+142 +110	+88 +56	+108 +56	+49 +17	+69 +17	+32 0	+52 0	+81 0	+25 -7	+36 -16	± 16	± 26	+3 -20	+5 -27	+16 -36	-13 -36	-9 -41	0 -52	-27 -50	-25 -57	-14 -66	-47 -79	-36 -88
315	400	0 -40	+161 +125	+98 +62	+119 +62	+54 +18	+75 +18	+36 0	+57 0	+89 0	+29 -7	+39 -18	± 18	± 28.5	+3 -22	+7 -29	+17 -40	-14 -39	-10 -46	0 -57	-30 -55	-26 -62	-16 -73	-51 -87	-41 -98
400	500	0 -45	+175 +135	+108 +68	+131 +68	+60 +20	+83 +20	+40 0	+63 0	+97 0	+33 -7	+43 -20	± 20	± 31.5	+2 -25	+8 -32	+18 -45	-16 -43	-10 -50	0 -63	-33 -60	-27 -67	-17 -80	-55 -95	-45 -108
500	630	0 -50	+189 +145	+120 +76	+146 +76	+66 +22	+92 +22	+44 0	+70 0	+110 0	-	-	± 22	± 35	-	-44	-70	-	-26	-26	-	-44	-44	-78	-78
630	800	0 -75	+210 +160	+130 +80	+160 +80	+74 +24	+104 +24	+50 0	+80 0	+125 0	-	-	± 25	± 40	-	-50	-80	-	-30	-30	-	-50	-50	-88	-88
800	1000	0 -100	+226 +170	+142 +86	+176 +86	+82 +26	+116 +26	+56 0	+90 0	+140 0	-	-	± 28	± 45	-	-56	-90	-	-34	-34	-	-56	-56	-100	-100
1000	1250	0 -125	+261 +195	+164 +98	+203 +98	+94 +28	+133 +28	+66 0	+105 0	+165 0	-	-	± 33	± 52.5	-	-66	-105	-	-40	-40	-	-66	-66	-120	-120
1250	1600	0 -160	+298 +220	+188 +110	+235 +110	+108 +30	+155 +30	+78 0	+125 0	+195 0	-	-	± 39	± 62.5	-	-78	-125	-	-48	-48	-	-78	-78	-140	-140
1600	2000	0 -200	+332 +240	+212 +120	+270 +120	+124 +32	+182 +32	+92 0	+150 0	+230 0	-	-	± 46	± 75	-	-92	-150	-	-58	-58	-	-92	-92	-170	-170
2000	2500	0 -250	+370 +260	+240 +130	+305 +130	+144 +34	+209 +34	+110 0	+175 0	+280 0	-	-	± 55	± 87.5	-	-110	-175	-	-68	-68	-	-110	-110	-195	-195

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