

CATALOG 2009

TENGEN BEARING COMPANY



CYLINDRICAL ROLLER BEARINGS
Catalog No. RC1200

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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 comparison, is intending to save our customers' hassles when they are looking for bearings substitutions in China. More brands of bearings' numbers will be added for comparison 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”

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)

<i>d</i> (mm)		Δ_{dmp} Deviation of Mean Bore Diameter										<i>units</i> : 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	-	-	-	-	-	-	-	-		

<i>d</i> (mm)		V_{dmp} Variation of Mean Bore Diameter					Δ_{Bs} (or Δ_{Cs}) Deviation of Single (Outer) Ring Width												<i>units</i> : 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	High	Low
0.6	2.5	6	5	3	2	1.5	0	-40	0	-40	0	-40	-	-	0	-250	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	0	-250
10	18	6	5	3	2	1.5	0	-120	0	-80	0	-80	0	-250	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	0	-250
30	50	9	8	4	3	1.5	0	-120	0	-120	0	-120	0	-250	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	0	-250
80	120	15	11	5	4	2.5	0	-200	0	-200	0	-380	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	0	-380
150	180	19	14	7	5	3.5	0	-250	0	-250	0	-250	0	-500	0	-380	0	-380	0	-380
180	250	23	17	8	6	4	0	-300	0	-300	0	-300	0	-500	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	High	Low	High	Low	High	Low	High	Low	High	Low
2.5	Incl. 6	0	-8	0	-7	0	-5	0	-4	0	-2.5	-2.5	
6	18	0	-8	0	-7	0	-5	0	-4	0	-2.5	-2.5	
18	30	0	-9	0	-8	0	-6	0	-5	0	-4	-4	
30	50	0	-11	0	-9	0	-7	0	-6	0	-4	-4	
50	80	0	-13	0	-11	0	-9	0	-7	0	-4	-4	
80	120	0	-15	0	-13	0	-10	0	-8	0	-5	-5	
120	150	0	-18	0	-15	0	-11	0	-9	0	-5	-5	
150	180	0	-25	0	-18	0	-13	0	-10	0	-7	-7	
180	250	0	-30	0	-20	0	-15	0	-11	0	-8	-8	
250	315	0	-35	0	-25	0	-18	0	-13	0	-8	-8	
315	400	0	-40	0	-28	0	-20	0	-15	0	-10	-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

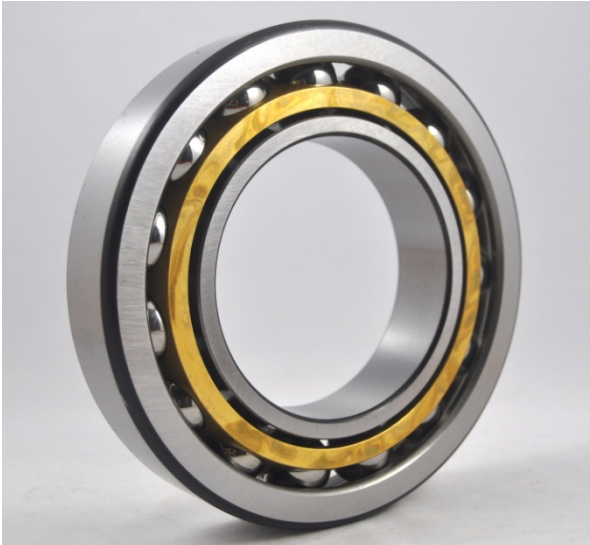
Bearing Units

- 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



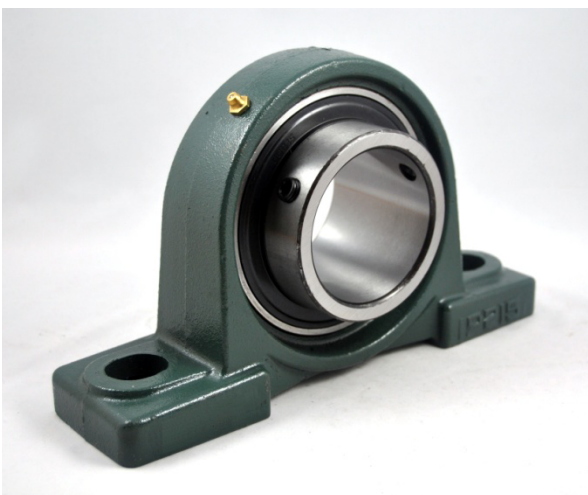
TAPERED ROLLER BEARINGS



NEEDLE ROLLER BEARINGS



HIGH PRECISION BEARINGS



BEARING UNITS

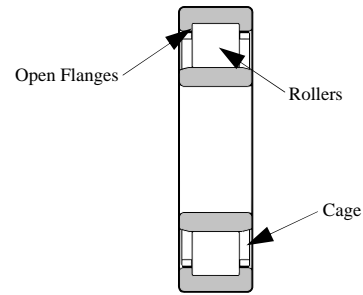
BEARING TABLES

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.

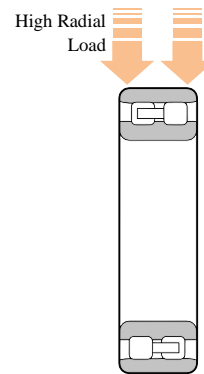
Single Row Cylindrical Roller Bearings

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.



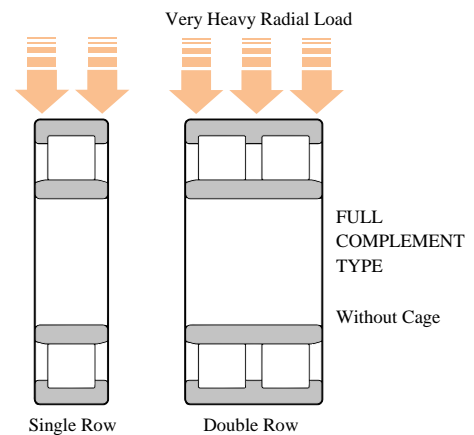
Double Row Cylindrical Roller Bearings

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.



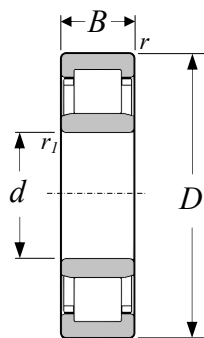
Full Complement Cylindrical Roller Bearings

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.

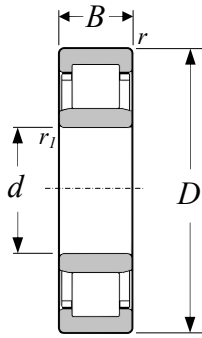


CYLINDRICAL ROLLER BEARINGS
Single Row

Table 68
Bore Diameter 15mm - 25mm



Principal Dimensions			Basic Load Ratings		Speed Ratings		Mass	Designations			
d	D	B	Dynamic	Static	Ref. Speed	Limiting Speed					
mm			C	C ₀	r/min		kg	Local	SKF	FAG	NSK
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



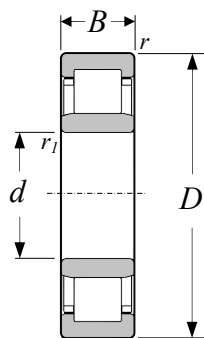
CYLINDRICAL ROLLER BEARINGS
Single Row

Table 69
Bore Diameter 25mm - 30mm

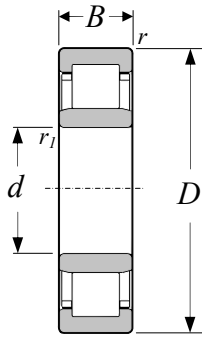
Principal Dimensions			Basic Load Ratings		Speed Ratings		Mass	Designations			
d	D	B	Dynamic	Static	Ref. Speed	Limiting Speed		Local	SKF	FAG	NSK
mm			C	C ₀	r/min		kg				
25	62	17	46.5	36.5	12000	15000	0.29	NJ 305 W	NJ 305 ECJ	NJ 305 E1	NJ 305 W
25	62	17	46.5	36.5	12000	22000	0.29	NJ 305 M	NJ 305 ECML	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		Local	SKF	FAG	NSK
mm			C	C ₀	r/min		kg				
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



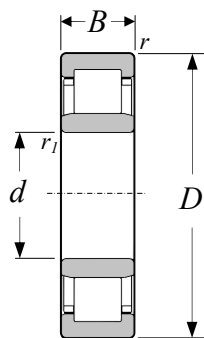
CYLINDRICAL ROLLER BEARINGS
Single Row

Table 71
Bore Diameter 35mm - 40mm

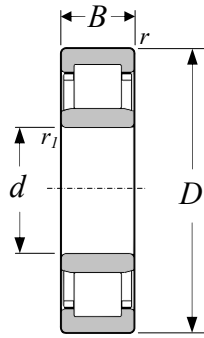
Principal Dimensions			Basic Load Ratings		Speed Ratings		Mass	Designations			
d	D	B	Dynamic	Static	Ref. Speed	Limiting Speed		Local	SKF	FAG	NSK
mm			C	C ₀	r/min		kg				
35	80	21	75	63	9500	11000	0.51	NUP 307 T	NUP 307 ECP	NUP 307 E.TVP2	NUP 307 T
35	80	31	106	98	9500	11000	0.73	NJ 2307 T	NJ 2307 ECP	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						
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



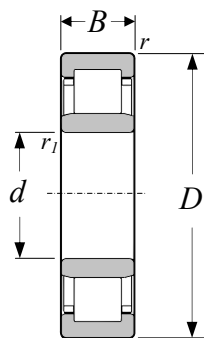
CYLINDRICAL ROLLER BEARINGS
Single Row

Table 73
Bore Diameter 45mm - 50mm

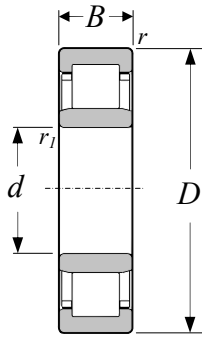
Principal Dimensions			Basic Load Ratings		Speed Ratings		Mass	Designations			
d	D	B	Dynamic	Static	Ref. Speed	Limiting Speed		Local	SKF	FAG	NSK
mm			C	C ₀	r/min		kg				
45	100	36	160	153	7500	13000	1.45	NJ 2309 M	NJ 2309 ECML	NJ 2309 E.M1	NJ 2309 M
45	100	36	160	153	7500	8500	1.35	NJ 2309 T	NJ 2309 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 C	Static C ₀	Ref. Speed	Limiting Speed		Local	SKF	FAG	NSK
mm			kN		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 E.M1	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



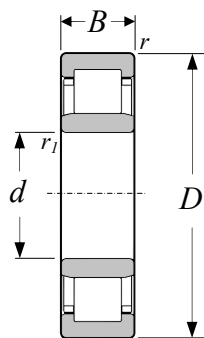
CYLINDRICAL ROLLER BEARINGS
Single Row

Table 75
Bore Diameter 55mm - 60mm

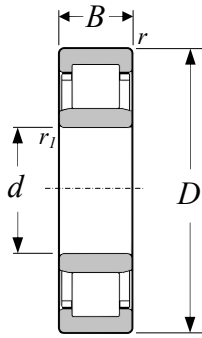
Principal Dimensions			Basic Load Ratings		Speed Ratings		Mass	Designations			
d	D	B	Dynamic	Static	Ref. Speed	Limiting Speed		Local	SKF	FAG	NSK
mm			C	C ₀	r/min		kg				
55	120	29	156	143	6000	7000	1.55	NUP 311 M	NUP 311 ECM	NUP 311 E.M1	NUP 311 M
55	120	29	156	143	6000	11000	1.55	NUP 311 M	NUP 311 ECML	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



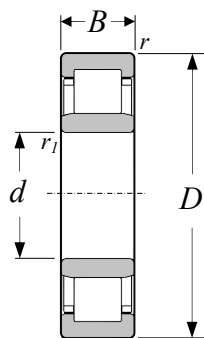
CYLINDRICAL ROLLER BEARINGS
Single Row

Table 77
Bore Diameter 65mm - 70mm

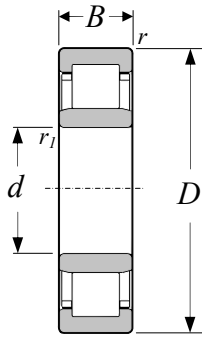
Principal Dimensions			Basic Load Ratings		Speed Ratings		Mass	Designations			
d	D	B	Dynamic	Static	Ref. Speed	Limiting Speed		Local	SKF	FAG	NSK
mm			C	C ₀	r/min		kg				
65	140	48	285	290	5300	6000	3.35	NJ 2313 T	NJ 2313 ECP	NJ 2313 E.TVP2	NJ 2313 T
65	140	48	285	290	5300	9500	3.4	NU 2313 M	NU 2313 ECML	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		kg					
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

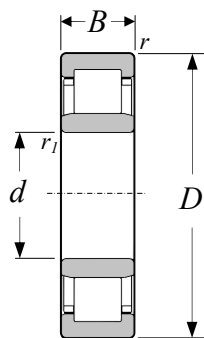
Single Row

Table 79
Bore Diameter 75mm - 80mm

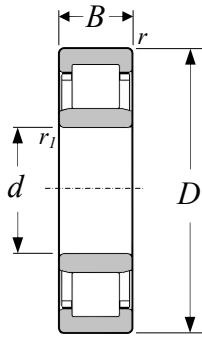
Principal Dimensions			Basic Load Ratings		Speed Ratings		Mass	Designations			
d	D	B	Dynamic	Static	Ref. Speed	Limiting Speed		Local	SKF	FAG	NSK
mm			C	C ₀	r/min						
75	160	55	380	400	4500	8000	5.1	NUP 2315 M	NUP 2315 ECML	NUP 2315 E.M1	NUP 2315 M
75	160	55	380	400	4500	5300	5.1	NUP 2315 T	NUP 2315 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



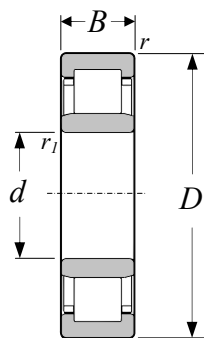
CYLINDRICAL ROLLER BEARINGS
Single Row

Table 81
Bore Diameter 85mm - 90mm

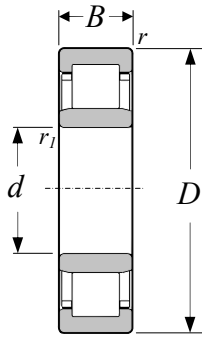
Principal Dimensions			Basic Load Ratings		Speed Ratings		Mass	Designations			
d	D	B	Dynamic	Static	Ref. Speed	Limiting Speed		Local	SKF	FAG	NSK
mm			C	C ₀	r/min		kg				
85	180	60	455	490	4000	4800	7	NUP 2317 T	NUP 2317 ECNP	NUP 2317 E.TVP2	NUP 2317 T
85	180	60	455	490	4000	4800	7	NUP 2317 T	NUP 2317 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

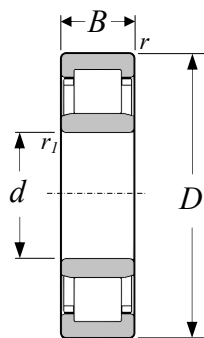
Single Row

Table 83
Bore Diameter 100mm

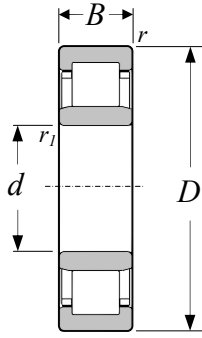
Principal Dimensions			Basic Load Ratings		Speed Ratings		Mass	Designations			
d	D	B	Dynamic	Static	Ref. Speed	Limiting Speed		Local	SKF	FAG	NSK
mm			C	C ₀	r/min		kg				
100	150	24	85.8	114	5000	7500	1.45	NU 1020 M	NU 1020 ML	NU 1020 E.M1	NU 1020 M
100	180	34	285	305	4000	4500	3.45	N 220 T	N 220 ECP	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



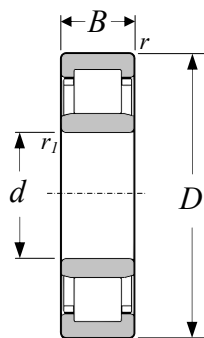
CYLINDRICAL ROLLER BEARINGS
Single Row

Table 85
Bore Diameter 110mm - 120mm

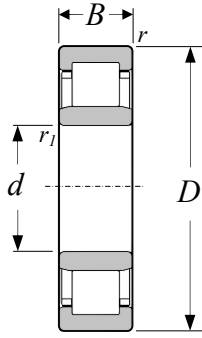
Principal Dimensions			Basic Load Ratings		Speed Ratings		Mass	Designations			
d	D	B	Dynamic	Static	Ref. Speed	Limiting Speed		Local	SKF	FAG	NSK
mm			C	C ₀	r/min		kg				
110	240	50	530	540	3000	3400	11.1	NJ 322 T	NJ 322 ECP	NJ 322 E.TVP2	NJ 322 T
110	240	50	530	540	3000	3400	11.2	NU 322 W	NU 322 ECJ	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



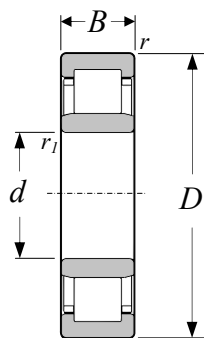
CYLINDRICAL ROLLER BEARINGS
Single Row

Table 87
Bore Diameter 130mm - 150mm

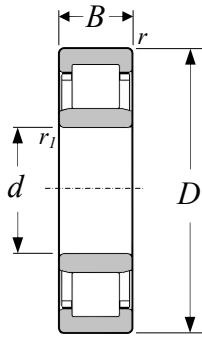
Principal Dimensions			Basic Load Ratings		Speed Ratings		Mass	Designations			
d	D	B	Dynamic	Static	Ref. Speed	Limiting Speed		Local	SKF	FAG	NSK
mm			C	C ₀	r/min		kg				
130	280	58	720	750	2400	3800	19.6	NUP 326 M	NUP 326 ECML	NUP 326 E.M1	NUP 326 M
130	280	58	720	750	2400	3000	19.6	NUP 326 T	NUP 326 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



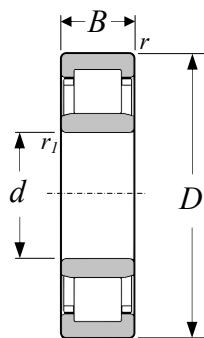
CYLINDRICAL ROLLER BEARINGS
Single Row

Table 89
Bore Diameter 180mm - 220mm

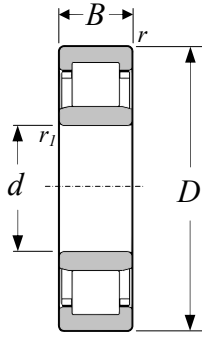
Principal Dimensions			Basic Load Ratings		Speed Ratings		Mass	Designations			
d	D	B	Dynamic	Static	Ref. Speed	Limiting Speed		Local	SKF	FAG	NSK
mm			C	C ₀	r/min		kg				
180	320	86	1100	1430	2200	2400	32	NJ 2236 M	NJ 2236 ECM	NJ 2236 E.M1	NJ 2236 M
180	320	86	1100	1430	2200	3200	32	NJ 2236 M	NJ 2236 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



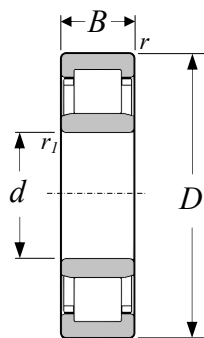
CYLINDRICAL ROLLER BEARINGS
Single Row

Table 91
Bore Diameter 320mm - 440mm

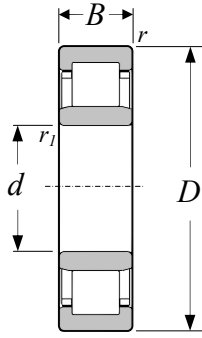
Principal Dimensions			Basic Load Ratings		Speed Ratings		Mass	Designations			
d	D	B	Dynamic	Static	Ref. Speed	Limiting Speed		Local	SKF	FAG	NSK
mm			C	C ₀	r/min		kg				
320	540	176	3140	5400	1000	1700	175	NU 3164 M	NU 3164 ECMA	NU 3164 E.M1	NU 3164 M
320	580	92	1610	2450	1200	1600	115	NU 264 M	NU 264 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	NU 3988 ECMA	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



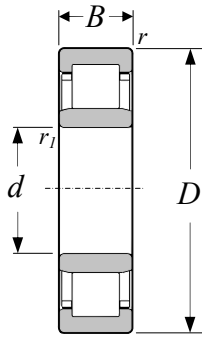
CYLINDRICAL ROLLER BEARINGS
Single Row

Table 93
Bore Diameter 600mm - 1000mm

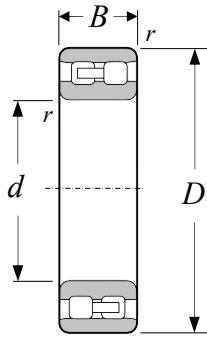
Principal Dimensions			Basic Load Ratings		Speed Ratings		Mass	Designations			
d	D	B	Dynamic	Static	Ref. Speed	Limiting Speed		Local	SKF	FAG	NSK
mm			C	C ₀	r/min		kg				
600	870	200	5390	11000	600	900	415	NU 30/600 M	NU 30/600 ECMA/HA1	NU 30/600 E.M1	NU 30/600 M
600	1090	155	5610	9800	480	850	710	NU 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 ECMB	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					
mm			C	C ₀	r/min		kg	Local	SKF	FAG	NSK
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



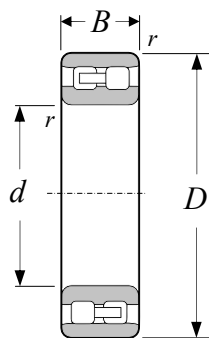
CYLINDRICAL ROLLER BEARINGS
Double Row

Table 95
Bore Diameter 105mm - 320mm

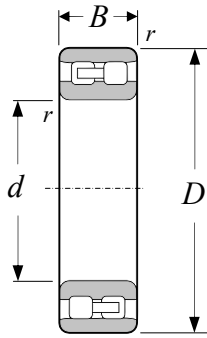
Principal Dimensions			Basic Load Ratings		Speed Ratings		Mass	Designations			
d	D	B	Dynamic	Static	Ref. Speed	Limiting Speed		Local	SKF	FAG	NSK
mm			C	C ₀	r/min		kg				
105	175	69	413	670	3400	4300	6.7	NNU 4121 MBKR30	NNU 4121 K30M/W33	NNU 4121 K30.M	NNU 4121 MBKR30
105	175	69	413	670	3400	4300	6.7	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



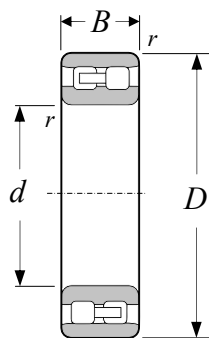
CYLINDRICAL ROLLER BEARINGS
Double Row

Table 97
Bore Diameter 530mm - 1000mm

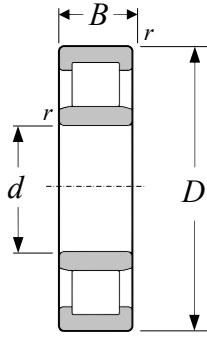
Principal Dimensions			Basic Load Ratings		Speed Ratings		Mass	Designations			
d	D	B	Dynamic	Static	Ref. Speed	Limiting Speed					
mm			C	C ₀	r/min		kg	Local	SKF	FAG	NSK
530	780	250	5500	12200	670	800	420	NNU 40/530 MBKR	NNU 40/530 KM/W33	NNU 40/530 K.M	NNU 40/530 MBKR
530	780	250	5500	12200	670	800	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	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



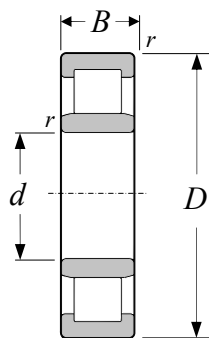
CYLINDRICAL ROLLER BEARINGS
Full Complement, Single Row

Table 99
Bore Diameter 20mm - 140mm

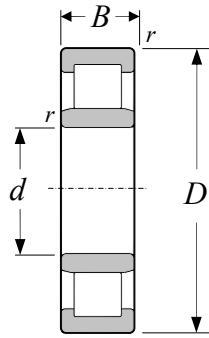
Principal Dimensions			Basic Load Ratings		Speed Ratings		Mass	Designations			
d	D	B	Dynamic C	Static C ₀	Ref. Speed	Limiting Speed		Local	SKF	FAG	NSK
mm			kN		r/min		kg				
20	42	16	28.1	28.5	8500	10000	0.11	NCF 3004 CV	NCF 3004 CV	-	-
25	47	16	31.9	35.5	7000	9000	0.12	NCF 3005 CV	NCF 3005 CV	-	-
25	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	-	-



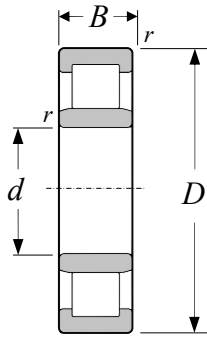
CYLINDRICAL ROLLER BEARINGS
Full Complement, Single Row

Table 101
Bore Diameter 360mm - 750mm

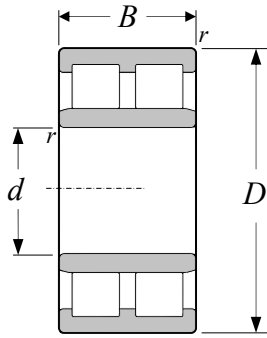
Principal Dimensions			Basic Load Ratings		Speed Ratings		Mass	Designations			
d	D	B	Dynamic C	Static C ₀	Ref. Speed	Limiting Speed		Local	SKF	FAG	NSK
mm			kN		r/min		kg				
360	480	72	1230	2600	530	670	36.5	NCF 2972 CV	NCF 2972 CV	-	-
360	540	134	2420	4300	500	630	105	NCF 3072 CV	NCF 3072 CV	-	-
380	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	-	-



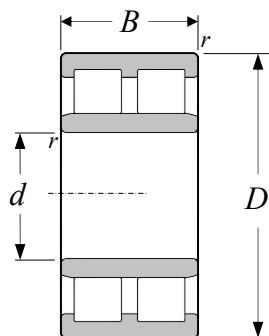
CYLINDRICAL ROLLER BEARINGS
Full Complement, Double Row

Table 103
Bore Diameter 20mm - 110mm

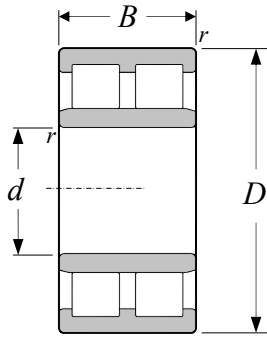
Principal Dimensions			Basic Load Ratings		Speed Ratings		Mass	Designations			
d	D	B	Dynamic	Static	Ref. Speed	Limiting Speed		Local	SKF	FAG	NSK
mm			C	C ₀	r/min		kg				
20	42	30	52.3	57	8500	10000	0.2	NNCF 5004 CV	NNCF 5004 CV	-	NNCF 5004 V
20	42	30	45.7	55	-	3400	0.2	NNF 5004 ADB-2LSV	NNF 5004 ADB-2LSV	-	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



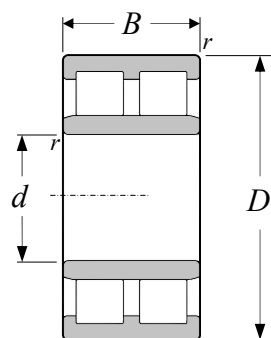
CYLINDRICAL ROLLER BEARINGS
Full Complement, Double Row

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



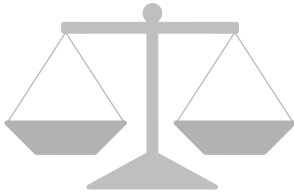
Principal Dimensions			Basic Load Ratings		Speed Ratings		Mass	Designations			
d	D	B	Dynamic	Static	Ref. Speed	Limiting Speed		Local	SKF	FAG	NSK
mm			C	C ₀	r/min		kg				
300	420	118	1680	3750	670	800	52.5	NNCF 4960 CV	NNCF 4960 CV	-	NNCF 4960 V
300	420	118	1680	3750	670	800	52	NNCL 4960 CV	NNCL 4960 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

APPENDICES CONTENTS

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

Tolerance Tables for Shaft Diameters

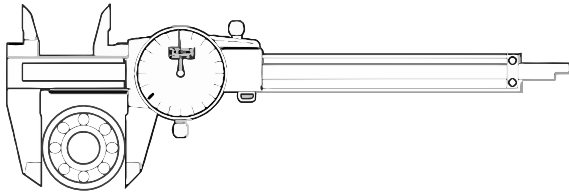
Tolerance Tables for Housing Bore Diameters



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

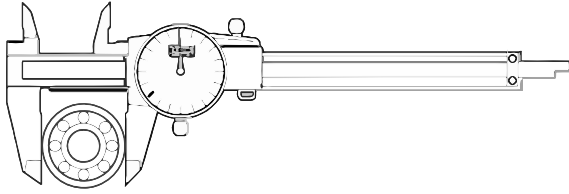
<i>kg</i>	-	<i>lb</i>	<i>kg</i>	-	<i>lb</i>
0.454	1	2.205	23.133	51	112.44
0.907	2	4.409	23.587	52	114.64
1.361	3	6.614	24.040	53	116.84
1.814	4	8.818	24.494	54	119.05
2.268	5	11.023	24.948	55	121.25
2.722	6	13.228	25.401	56	123.46
3.175	7	15.432	25.855	57	125.66
3.629	8	17.637	26.308	58	127.87
4.082	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



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 -12	± 9.5	± 15	+3 -10	+4 -15	+9 -21	-6 -19	-5 -24	0 -30	-15 -28	-14 -33	-9 -39	-26 -45	-21 -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 -62	-26 -73	-16 -87	-51 -97	-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	-	0 -44	0 -70	-	-26 -70	-26 -96	-	-44 -88	-44 -114	-78 -122	-78 -148
630	800	0 -75	+210 +160	+130 +80	+160 +80	+74 +24	+104 +24	+50 0	+80 0	+125 0	-	-	± 25	± 40	-	0 -50	0 -80	-	-30 -80	-30 -110	-	-50 -100	-50 -130	-88 -138	-88 -168
800	1000	0 -100	+226 +170	+142 +86	+176 +86	+82 +26	+116 +26	+56 0	+90 0	+140 0	-	-	± 28	± 45	-	0 -56	0 -90	-	-34 -90	-34 -124	-	-56 -112	-56 -146	-100 -156	-100 -190
1000	1250	0 -125	+261 +195	+164 +98	+203 +98	+94 +28	+133 +28	+66 0	+105 0	+165 0	-	-	± 33	± 52.5	-	0 -66	0 -105	-	-40 -106	-40 -145	-	-66 -132	-66 -171	-120 -186	-120 -225
1250	1600	0 -160	+298 +220	+188 +110	+235 +110	+108 +30	+155 +30	+78 0	+125 0	+195 0	-	-	± 39	± 62.5	-	0 -78	0 -125	-	-48 -126	-48 -173	-	-78 -156	-78 -203	-140 -218	-140 -265
1600	2000	0 -200	+332 +240	+212 +120	+270 +120	+124 +32	+182 +32	+92 0	+150 0	+230 0	-	-	± 46	± 75	-	0 -92	0 -150	-	-58 -150	-58 -208	-	-92 -184	-92 -242	-170 -262	-170 -320
2000	2500	0 -250	+370 +260	+240 +130	+305 +130	+144 +34	+209 +34	+110 0	+175 0	+280 0	-	-	± 55	± 87.5	-	0 -110	0 -175	-	-68 -178	-68 -243	-	-110 -220	-110 -285	-195 -305	-195 -370

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