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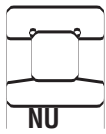
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Introduction

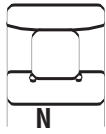
ABOUT NSK CYLINDRICAL ROLLER BEARINGS

- NU style single row
- N style single row
- NJ style single row
- NF style single row
- NH style single row
- NUP style single row
- Double row styles (NN, NNU)

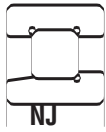
Cylindrical roller bearings are designed to carry heavy radial loads and are suitable for high speed applications. Their rolling elements are ground to provide maximum contact with the raceway and are precisely crowned to avoid edge loading due to shaft misalignment.



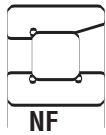
NU style bearings have two machined flanges on the outer ring and no flanges on the inner ring. The rollers and cages are assembled in the outer ring. Because there are no flanges in the inner ring, this bearing cannot carry a thrust load.



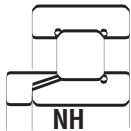
N style bearings have two machined flanges on the inner ring and no flanges on the outer ring, with rollers and cage on the inner ring. Like the NU style, the N has no thrust load carrying capability.



NJ style bearings have two machined flanges on the outer ring and a machined flange on one side of the inner ring. The roller and cage assembly is in the outer ring. The integral flange on the inner ring allows this bearing to carry an axial load.



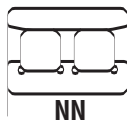
NF style bearings have two machined flanges on the inner ring and one flange on the outer ring, with roller and cage on the inner ring. Like the NJ bearing, these bearings have some thrust load capability.



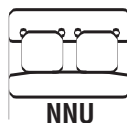
NH style bearings have two machined flanges on the outer ring and a machined flange on one side of the inner ring. A special-design inner ring allows use of a stabilizing ring on the non-flange side. As a result, these bearings can carry axial loads in both directions. The roller and cage assembly is mounted in the outer ring.



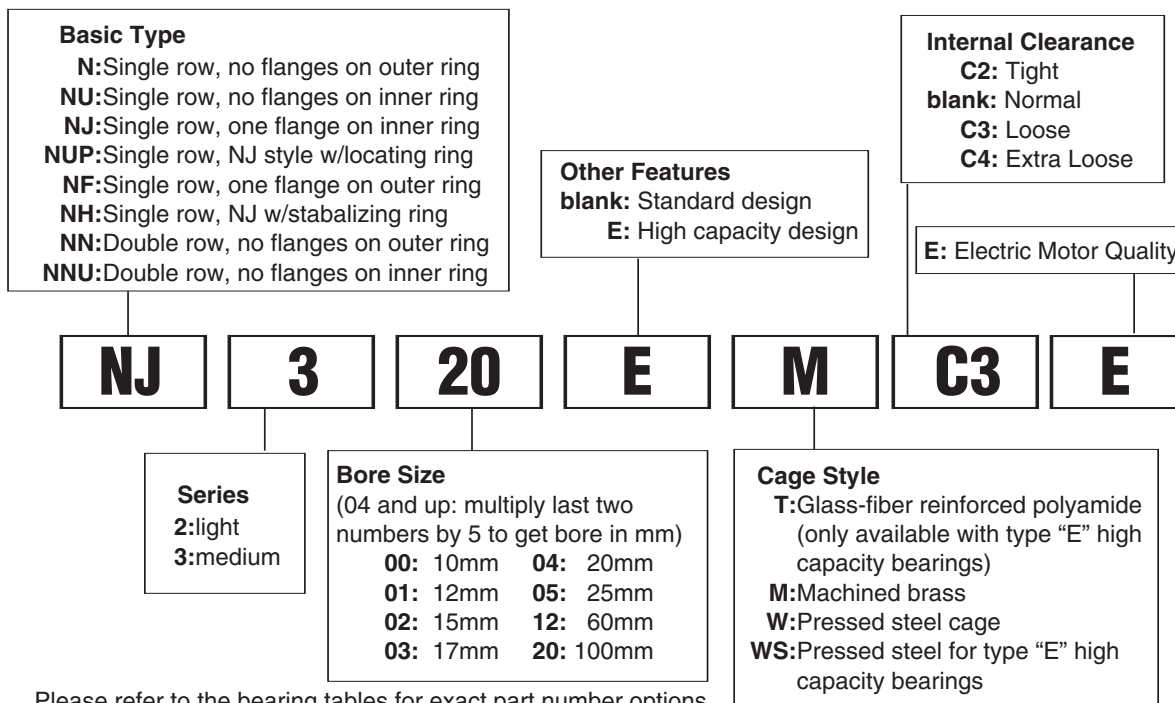
NUP style bearings are similar to the **NJ** style and come with a special ring often called a thrust collar. Mounted on the non-flange side of the inner ring, the thrust collar allows the bearing to carry an axial load in both directions. The thrust collar extends out of the bearing on one side, so the dimension across the inner ring is slightly greater than that of the outer ring.



Double Row cylindrical roller bearings are denoted by two N's within the part number (e.g., **NN** or **NNU**). The dimensions for these can be found in the Super Precision section of this catalog and can be ordered with standard precision.



Nomenclature — Cylindrical Roller Bearings



Interchange — Cylindrical Roller Bearings

DESCRIPTION		INTERCHANGE		
		NSK	SKF	FAG
Part Number Prefix	SINGLE ROW, NO FLANGES ON OUTER RING	N	N	N
	SINGLE ROW, NO FLANGES ON INNER RING	NU	NU	NU
	SINGLE ROW, 1 FLANGE INNER	NJ	NJ	NJ
	SINGLE ROW, 1 FLANGE OUTER	NF	NF	--
	SINGLE ROW, 1 FLANGE INNER, WITH RETAINING RING	NUP	NUP	NUP
	SINGLE ROW, 1 FLANGE INNER w/STABILIZING RING	NH	NH	NH
	STABILIZING RING	HJ	HJ	HJ
	DOUBLE ROW, FLANGES OUTER/FANGES INNER	NNU/NN	NNU/NN	NNU/NN
Part Number	LIGHT	2xx	2xx	2xx
	MEDIUM	3xx	3xx	3xx
	HEAVY	4xx	4xx	4xx
	EXTRA LIGHT	10xx	10xx	10xx
	LIGHT, WIDE	22xx	22xx	22xx
	MEDIUM, WIDE	23xx	23xx	23xx
Part Number Suffix	POLYAMIDE CAGE	T	P	TVP2
	COMPOSITE HIGH TEMP (200F) CAGE	T7	--	--
	MACHINED BRASS CAGE	M	M	M, M1
	PRESSED STEEL CAGE	W,WS	J	JP1
	HIGH CAPACITY DESIGN	E	EC	E
	FULL COMPLEMENT (NO CAGE)	V	V	V
	TIGHT CLEARANCE	C2	C2	C2
	NORMAL CLEARANCE	BLANK	BLANK	BLANK
	LOOSE CLEARANCE	C3	C3	C3
	EXTRA LOOSE CLEARANCE	C4	C4	C4

The competitive manufacturers are provided for a convenient source of unit substitution. They can be considered interchangeable in most instances, but for special applications, please consult NSK Engineering. NSK assumes no liability with respect to errors or omissions.

Cylindrical Roller Bearing Applications

Shown below are some common applications for cylindrical roller bearings. The bearing is designed with two flanges on one of the rings to hold the roller and cage assembly. The other ring is separable with either one flange or none at all. Designs with a flange on the separable ring can handle light axial loading against that flange. The choice of the ring configuration is determined by the mounting and assembly practices for the application. All designs have the same high radial load capacity and operate at the same limiting speeds.

Cylindrical Roller Bearings

- *Traction Motors (NH and NU)*
- *Electric Motors, medium to large size*
- *Pumps and Compressors*
 - *Centrifugal Pump*
 - *Deepwell Pump*
 - *Slurry Pump*
 - *Screw Compressor*
- *Plastic Forming Equipment*
- *Blowers and Fans*
- *Gears and Drives*
- *Coal Pulverizers (NN)*
- *Construction Equipment*
- *Heavy Equipment*
- *Machine Tool Spindle*
- *Calender Rolls of Paper Making Machines*
- *Transmissions*
- *Printing Presses*
- *Mold Oscillator Tables*
- *Continuous Casters, Float End*
- *Turbines*
- *Crushers*
- *Journal Boxes*
- *Speed Reducers*
- *Table Rollers for Steel Mills*
- *Oil Field Equipment*
 - *Pump Jack*



N Style

Cylindrical Roller Bearing

200 Series

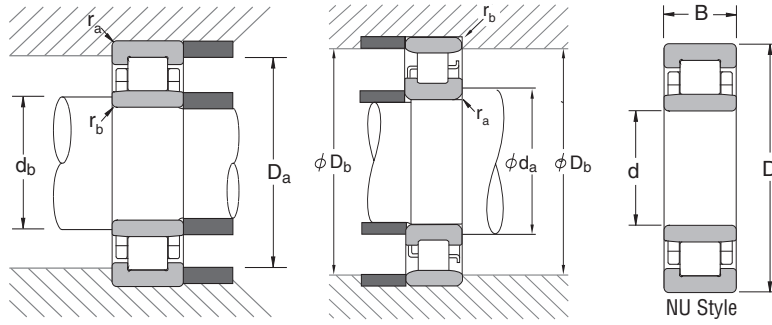
NU, N, NJ, NUP, NF, NH and HJ Stabilizing Rings

Bearing Number		Nominal Bearing Dimensions						Preferred Shoulder Diameters (for shoulders that contact flanged rings)		
		<i>d</i>		<i>D</i>		<i>B</i>		<i>r_a</i> * (in)	<i>da</i> (in)	<i>Da</i> (in)
Prefix	Series	mm	inch	mm	inch	mm	inch	max	min	max
ADD PREFIX NU, N, NJ, NUP, NF OR NH FOR REQUIRED STYLE	205	25	0.9843	52	2.0472	15	0.5906	0.039	1.181	1.850
	206	30	1.1811	62	2.4409	16	0.6299	0.039	1.380	2.244
	207	35	1.3780	72	2.8346	17	0.6693	0.039	1.575	2.579
	208	40	1.5748	80	3.1496	18	0.7087	0.039	1.850	2.894
	209	45	1.7717	85	3.3465	19	0.7480	0.039	2.047	3.091
	210	50	1.9685	90	3.5433	20	0.7874	0.039	2.244	3.287
	211	55	2.1654	100	3.9370	21	0.8268	0.059	2.441	3.622
	212	60	2.3622	110	4.3307	22	0.8661	0.059	2.697	4.016
	213	65	2.5591	120	4.7244	23	0.9055	0.059	2.894	4.409
	214	70	2.7559	125	4.9213	24	0.9449	0.059	3.091	4.606
	215	75	2.9528	130	5.1181	25	0.9843	0.059	3.287	4.803
	216	80	3.1496	140	5.5118	26	1.0236	0.079	3.543	5.157
	217	85	3.3465	150	5.9055	28	1.1024	0.079	3.740	5.551
	218	90	3.5433	160	6.2992	30	1.1811	0.079	3.937	5.945
	219	95	3.7402	170	6.6929	32	1.2598	0.079	4.213	6.260
	220	100	3.9370	180	7.0866	34	1.3386	0.079	4.409	6.654
	221	105	4.1339	190	7.4803	36	1.4173	0.079	4.606	7.047
	222	110	4.3307	200	7.8740	38	1.4961	0.079	4.803	7.441
	224	120	4.7244	215	8.4646	40	1.5748	0.079	5.197	8.031
	226	130	5.1181	230	9.0551	40	1.5748	0.099	5.669	8.543
	228	140	5.5118	250	9.8425	42	1.6535	0.099	6.063	9.331
	230	150	5.9055	270	10.6299	45	1.7717	0.099	6.457	10.118
	232	160	6.2992	290	11.4173	48	1.8898	0.099	6.850	10.906
	234	170	6.6929	310	12.2047	52	2.0472	0.118	7.402	11.575
236	180	7.0866	320	12.5984	52	2.0472	0.118	7.795	11.969	
238	190	7.4803	340	13.3858	55	2.1654	0.118	8.189	12.756	
240	200	7.8740	360	14.1732	58	2.2835	0.118	9.409	13.543	
244	220	8.6614	400	15.7480	65	2.5591	0.118	10.394	15.118	
248	240	9.4488	440	17.3228	72	2.8346	0.118	11.378	16.693	
252	260	10.2362	480	18.8976	80	3.1496	0.157	12.362	18.110	
256	280	11.0236	500	19.6850	80	3.1496	0.157	13.150	18.898	
260	300	11.8110	540	21.2598	85	3.3465	0.157	14.094	20.472	

*Maximum fillet which corner radius of bearing will clear.

Application Data

- Radial Internal Clearance — Table 10.37 on page 331
- Bearing Tolerances — Table 10.12 thru Table 10.16 page 314-17
- Shaft & Housing Fits — Table 10.31 and Table 10.33 page 328-29



Common Options	
M	: Machined Brass Cage
W	: Pressed Steel Cage
ET	: High Capacity Polyamide Cage
C3	: Loose Internal Clearance
CO†	: Normal Internal Clearance
E	: Electric Motor Quality
† Not shown in part number	

Bearing Number		Preferred Shoulder Diameters (for shoulders that contact unflanged rings)					Basic Load Ratings (lbs)		Limiting Speeds (1000 RPM)		Bearing Weight (Approx.) lbs	Stabilizing Ring
		r _b * (in)	d _b (in)		D _b (in)							
Prefix	Series	max	min	max	min	max	C _r	C _{or}	Grease	Oil		
ADD PREFIX NU, N, NJ, NUP, NF OR NH FOR REQUIRED STYLE	205	0.024	1.142	1.181	1.811	1.890	3960	3520	13.0	16.0	0.03	HJ205
	206	0.024	1.339	1.457	2.165	2.283	5260	4840	11.0	13.0	0.47	HJ206
	207	0.024	1.535	1.654	2.480	2.677	7590	7040	9.5	11.0	0.66	HJ207
	208	0.039	1.831	1.890	2.835	2.894	9790	9570	8.5	10.0	0.85	HJ208
	209	0.039	2.028	2.087	3.031	3.091	10300	10600	7.5	9.0	0.97	HJ209
	210	0.039	2.224	2.283	3.228	3.287	10800	11400	7.1	8.5	1.10	HJ210
	211	0.039	2.421	2.520	3.583	3.681	13000	14000	6.3	7.5	1.44	HJ211
	212	0.059	2.677	2.795	3.937	4.016	15400	16800	6.0	7.1	1.85	HJ212
	213	0.059	2.874	3.031	4.252	4.409	18800	21200	5.3	6.3	2.27	HJ213
	214	0.059	3.071	3.228	4.449	4.606	18700	21300	5.0	6.3	2.54	HJ214
	215	0.059	3.268	3.386	4.685	4.803	21700	24900	4.8	6.0	2.69	HJ215
	216	0.079	3.504	3.622	5.039	5.157	23800	27500	4.5	5.3	3.40	HJ216
	217	0.079	3.701	3.898	5.394	5.551	27100	31500	4.3	5.0	4.23	HJ217
	218	0.079	3.898	4.094	5.748	5.945	34100	39800	4.0	4.8	5.18	HJ218
	219	0.079	4.173	4.370	6.102	6.260	35400	40900	3.8	4.5	6.06	HJ219
	220	0.079	4.370	4.606	6.417	6.654	40900	48800	3.6	4.3	7.50	HJ220
	221	0.079	4.567	4.843	6.772	7.047	45100	54100	3.4	4.0	8.93	HJ221
	222	0.079	4.764	5.079	7.165	7.441	51300	60900	3.2	3.8	10.30	HJ222
	224	0.079	5.157	5.512	7.717	8.031	55700	67100	3.0	3.4	12.00	HJ224
	226	0.098	5.630	5.984	8.189	8.543	58100	72600	2.6	3.2	14.00	HJ226
	228	0.098	6.024	6.496	8.858	9.331	67100	83600	2.4	3.0	18.00	HJ228
	230	0.098	6.417	6.969	9.528	10.118	77000	97900	2.2	2.8	25.00	HJ230
	232	0.098	6.811	7.480	10.276	10.906	95700	128000	2.2	2.6	32.00	HJ232
	234	0.118	7.323	7.992	10.945	11.575	107000	143000	2.0	2.4	40.00	HJ234
	236	0.118	7.717	8.386	11.339	11.969	111000	152000	1.9	2.2	42.00	HJ236
	238	0.118	8.110	8.898	12.008	12.756	124000	173000	1.8	2.2	49.00	HJ238
40	0.118	8.504	9.409	12.717	13.543	140000	195000	1.7	2.0	58.00	HJ240	
244	0.118	9.291	10.394	14.055	15.118	171000	242000	1.5	1.8	82.00	HJ244	
248	0.118	10.079	11.378	15.433	16.693	210000	299000	1.3	1.6	111.00	HJ248	
252	0.157	11.024	12.362	16.850	18.110	249000	354000	1.2	1.5	147.00	HJ252	
256	0.157	11.811	13.150	17.638	18.898	257000	376000	1.1	1.4	155.00	HJ256	
260	0.157	12.598	14.094	19.055	20.472	315000	464000	1.1	1.3	196.00	HJ260	

*Maximum fillet which corner radius of bearing will clear.

C_r = Dynamic Radial Load Rating

C_{or} = Static Radial Load Rating

Introduction

Ball Bearings

Cylindrical Roller Bearings

Spherical Roller Bearings

Tapered Roller Bearings

Thrust Bearings

Split Pillow Blocks

Super Precision Bearings

Linear Motion

Rolling Mill Bearings

Engineering Section



N Style

Cylindrical Roller Bearing

300 Series

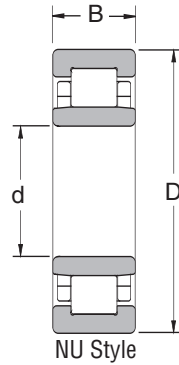
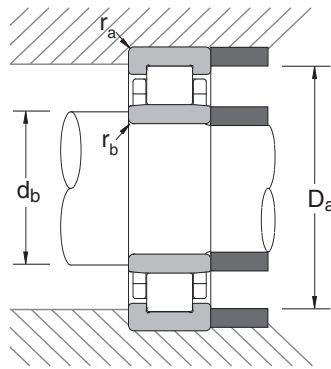
NU, N, NJ, NUP, NF, NH and HJ Stabilizing Rings

Bearing Number		Nominal Bearing Dimensions						Preferred Shoulder Diameters (for shoulders that contact flanged rings)		
		<i>d</i>		<i>D</i>		<i>B</i>		<i>r_a</i> * (in)	<i>d_a</i> (in)	<i>D_a</i> (in)
Prefix	Series	mm	inch	mm	inch	mm	inch	max	min	max
ADD PREFIX NU, N, NJ, NUP, NF OR NH FOR REQUIRED STYLE	305	25	0.9843	62	2.4409	17	0.6693	0.039	1.240	2.185
	306	30	1.1811	72	2.8346	19	0.7480	0.039	1.437	2.579
	307	35	1.3780	80	3.1496	21	0.8268	0.059	1.693	2.835
	308	40	1.5748	90	3.5433	23	0.9055	0.059	1.890	0.126
	309	45	1.7717	100	3.9370	25	0.9843	0.059	2.087	0.142
	310	50	1.9685	110	4.3307	27	1.0630	0.079	2.323	0.155
	311	55	2.1654	120	4.7244	29	1.1417	0.079	2.520	0.171
	312	60	2.3622	130	5.1181	31	1.2205	0.079	2.795	0.183
	313	65	2.5591	140	5.5118	33	1.2992	0.079	2.992	0.198
	314	70	2.7559	150	5.9055	35	1.3780	0.079	3.189	5.433
	315	75	2.9528	160	6.2992	37	1.4567	0.079	3.386	5.827
	316	80	3.1496	170	6.6929	39	1.5354	0.079	3.583	6.220
	317	85	3.3465	180	7.0866	41	1.6142	0.099	3.858	6.535
	318	90	3.5433	190	7.4803	43	1.6929	0.099	4.055	6.929
	319	95	3.7402	200	7.8740	45	1.7717	0.099	4.252	7.323
	320	100	3.9370	215	8.4646	47	1.8504	0.099	4.449	7.913
	321	105	4.1339	225	8.8583	49	1.9291	0.099	4.646	8.307
	322	110	4.3307	240	9.4488	50	1.9685	0.099	4.843	8.898
	324	120	4.7244	260	10.2362	55	2.1654	0.099	5.236	9.685
	326	130	5.1181	280	11.0236	58	2.2835	0.118	5.748	10.315
	328	140	5.5118	300	11.8110	62	2.4409	0.118	6.142	11.102
	330	150	5.9055	320	12.5984	65	2.5591	0.118	6.535	11.890
	332	160	6.2992	340	13.3858	68	2.6772	0.118	6.929	12.677
	334	170	6.6929	360	14.1732	72	2.8346	0.118	7.323	13.543
	336	180	7.0866	380	14.9606	75	2.9528	0.118	7.717	11.969
	338	190	7.4803	400	15.7480	78	3.0709	0.157	8.268	14.961
	340	200	7.8740	420	16.5354	80	3.1496	0.157	8.661	15.748
	344	220	8.6614	460	18.1102	88	3.4646	0.157	9.449	17.323
	348	240	9.4488	500	19.6850	95	3.7402	0.157	10.236	18.898
	352	260	10.2362	540	21.2598	102	4.0157	0.197	11.260	20.236

*Maximum fillet which corner radius of bearing will clear.

Application Data

- Radial Internal Clearance — Table 10.37 on page 331
- Bearing Tolerances — Table 10.12 thru Table 10.16 page 314-17
- Shaft & Housing Fits — Table 10.31 and Table 10.33 page 328-29



Common Options	
M	: Machined Brass Cage
W	: Pressed Steel Cage
ET	: High Capacity Polyamide Cage
C3	: Loose Internal Clearance
CO†	: Normal Internal Clearance
E	: Electric Motor Quality
† Not shown in part number	

Bearing Number		Preferred Shoulder Diameters (for shoulders that contact unflanged rings)					Basic Load Ratings (lbs)		Limiting Speeds (1000 RPM)		Bearing Weight (Approx.) lbs	Stabilizing Ring
		r _b * (in)	d _b (in)		D _b (in)							
Prefix	Series	max	min	max	min	max	C _r	C _{or}	Grease	Oil		
ADD PREFIX NU, N, NJ, NUP, NF OR NH FOR REQUIRED STYLE.	305	0.039	1.240	1.299	2.165	2.185	6560	5650	10.0	13.0	0.53	HJ305
	306	0.039	1.437	1.575	2.520	2.520	8690	7920	8.5	11.0	0.79	HJ306
	307	0.039	1.634	1.732	2.756	2.894	11100	10600	8.0	9.5	0.99	HJ307
	308	0.059	1.890	2.008	3.110	3.228	13200	12800	6.7	8.5	1.44	HJ308
	309	0.059	2.087	2.205	3.504	3.622	16600	16000	6.3	7.5	1.94	HJ309
	310	0.079	2.323	2.480	3.819	3.819	19500	19400	5.6	6.7	2.50	HJ310
	311	0.079	2.520	2.677	4.213	4.370	24900	25100	5.0	6.3	3.20	HJ311
	312	0.079	2.795	2.953	4.528	4.685	27700	28400	4.8	5.6	4.50	HJ312
	313	0.079	2.992	3.189	4.921	5.079	30400	31200	4.3	5.3	4.90	HJ313
	314	0.079	3.189	3.425	5.236	5.472	35400	37800	4.0	5.0	6.00	HJ314
	315	0.079	3.386	3.661	5.630	5.866	40300	42500	3.8	4.8	7.10	HJ315
	316	0.079	3.583	3.937	5.906	6.260	42700	46400	3.6	4.3	8.50	HJ316
	317	0.079	3.701	4.134	6.260	6.575	47500	51300	3.4	4.0	10.00	HJ317
	318	0.098	4.055	4.409	6.614	6.969	53900	59600	3.2	3.8	12.00	HJ318
	319	0.098	4.252	4.646	6.969	7.362	58100	64900	3.0	3.6	14.00	HJ319
	320	0.098	4.449	4.961	7.480	7.953	67100	75900	2.8	3.4	17.00	HJ320
	321	0.098	4.764	5.157	7.835	8.346	71500	80300	2.6	3.2	19.00	HJ321
	322	0.098	4.843	5.472	8.307	8.937	80300	90200	2.6	3.0	22.00	HJ322
	324	0.098	5.236	5.906	9.055	9.724	101000	114000	2.2	2.8	29.00	HJ324
	326	0.118	5.748	6.417	9.724	10.394	112000	129000	2.2	2.6	35.00	HJ326
	328	0.118	6.142	6.929	10.472	11.181	123000	143000	2.0	2.4	42.00	HJ328
	330	0.118	6.535	7.402	11.142	11.969	133000	155000	1.8	2.2	58.00	HJ330
	332	0.118	6.929	7.992	11.732	12.756	156000	197000	1.7	2.0	68.00	HJ332
	334	0.118	7.323	8.465	12.441	13.543	179000	227000	1.6	2.0	82.00	HJ334
	336	0.118	7.717	8.937	13.189	14.331	202000	260000	1.5	1.8	95.00	HJ336
	338	0.157	8.268	9.449	13.858	14.961	219000	284000	1.4	1.7	109.00	HJ338
	340	0.157	8.661	10.000	14.449	15.748	219000	286000	1.3	1.6	124.00	HJ340
	344	0.157	9.449	10.945	15.866	17.323	268000	354000	1.2	1.5	165.00	HJ344
	348	0.157	10.236	11.850	17.244	18.898	306000	409000	1.1	1.3	207.00	HJ348
	352	0.197	11.260	12.992	18.583	20.236	345000	469000	1.0	1.2	257.00	HJ352

*Maximum fillet which corner radius of bearing will clear.

C_r = Dynamic Radial Load Rating
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N Style

Cylindrical Roller Bearing

400 Series

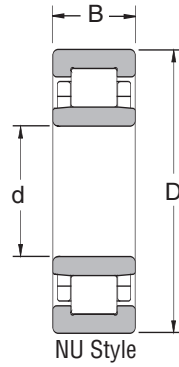
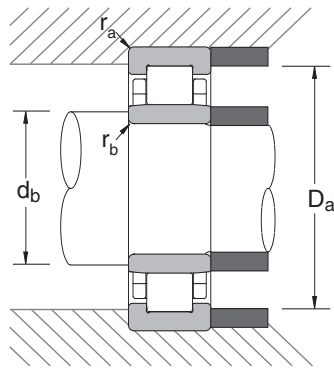
NU, N, NJ, NUP, NF, NH and HJ Stabilizing Rings

Bearing Number	Nominal Bearing Dimensions						Preferred Shoulder Diameters (for shoulders that contact flanged rings)		
	<i>d</i>		<i>D</i>		<i>B</i>		<i>r_a</i> * (in)	<i>da</i> (in)	<i>Da</i> (in)
Series	mm	inch	mm	inch	mm	inch	max	min	max
405	25	0.9843	80	3.1496	21	0.8268	0.059	1.299	2.835
406	30	1.1811	90	3.5433	23	0.9055	0.059	1.496	3.228
407	35	1.3780	100	3.9370	25	0.9843	0.059	1.693	3.622
408	40	1.5748	110	4.3307	27	1.0630	0.079	1.929	3.976
409	45	1.7717	120	4.7244	29	1.1417	0.079	2.126	4.370
410	50	1.9685	130	5.1181	31	1.2205	0.079	2.402	4.685
411	55	2.1654	140	5.5118	33	1.2992	0.079	2.598	5.079
412	60	2.3622	150	5.9055	35	1.3780	0.079	2.795	5.472
413	65	2.5591	160	6.2992	37	1.4567	0.039	2.992	5.866
414	70	2.7559	180	7.0866	42	1.6535	0.098	3.268	6.575
415	75	2.9528	190	7.4803	45	1.7717	0.098	3.465	6.969
416	80	3.1496	200	7.8740	48	1.8898	0.098	3.661	7.362
417	85	3.3465	210	8.2677	52	2.0472	0.118	3.976	7.638
418	90	3.5433	225	8.8583	54	2.1260	0.118	4.173	8.228
419	95	3.7402	240	9.4488	55	2.1654	0.118	4.370	8.819
420	100	3.9370	250	9.8425	58	2.2835	0.118	4.567	9.213
421	105	4.1339	260	10.2362	60	2.3622	0.118	--	9.606
422	110	4.3307	280	11.0236	65	2.5591	0.118	--	10.394
424	120	4.7244	310	12.2047	72	2.8346	0.157	5.512	11.417
426	130	5.1181	340	13.3858	78	3.0709	0.157	--	12.598
428	140	5.5118	360	14.1732	82	3.2283	0.157	6.299	13.386
430	150	5.9055	380	14.9606	85	3.3465	0.157	--	14.173

*Maximum fillet which corner radius of bearing will clear.

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- Radial Internal Clearance — Table 10.37 on page 331
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Common Options	
M	: Machined Brass Cage
W	: Pressed Steel Cage
ET	: High Capacity Polyamide Cage
C3	: Loose Internal Clearance
CO†	: Normal Internal Clearance
E	: Electric Motor Quality
† Not shown in part number	

Bearing Number		Preferred Shoulder Diameters (for shoulders that contact unflanged rings)					Basic Load Ratings (lbs)		Limiting Speeds (1000 RPM)		Bearing Weight (Approx.) lbs	Stabilizing Ring
		r_b * (in)	d_b (in)		D_b (in)							
Prefix	Series	max	min	max	min	max	C_r	C_{or}	Grease	Oil		
ADD PREFIX NU, N, NJ, NUP, NF OR NH FOR REQUIRED STYLE	405	0.059	1.299	1.457	2.520	2.835	10500	8910	9.0	11.0	1.225	HJ405
	406	0.059	1.496	1.693	2.953	3.228	14100	12300	7.5	9.5	1.632	HJ406
	407	0.059	1.693	2.008	3.346	3.622	16900	15500	6.7	8.0	2.193	HJ407
	408	0.079	1.929	2.205	3.701	3.976	21500	20000	6.0	7.5	2.794	HJ408
	409	0.079	2.126	2.441	4.055	4.370	24000	22900	5.6	6.7	3.542	HJ409
	410	0.079	2.402	2.677	4.449	4.685	29000	27700	5.0	6.0	4.312	HJ410
	411	0.079	2.598	2.953	4.685	5.079	31200	31000	4.5	5.6	5.412	HJ411
	412	0.079	2.795	3.150	5.118	5.472	37600	37800	4.3	5.3	6.60	HJ412
	413	0.079	2.992	3.386	5.433	5.866	40900	41800	4.0	4.8	7.876	HJ413
	414	0.098	3.268	3.819	6.102	6.575	51000	52800	3.6	4.3	12.00	HJ414
	415	0.098	3.465	4.016	6.457	6.969	59000	61400	3.4	4.0	14.00	HJ415
	416	0.098	3.661	4.213	6.811	7.362	67100	70400	3.2	3.8	16.00	HJ416
	417	0.118	3.976	4.331	7.087	7.638	74800	78100	3.0	3.8	21.00	HJ417
	418	0.118	4.173	4.724	7.717	8.228	83600	90200	2.8	3.4	25.00	HJ418
	419	0.118	4.370	5.118	8.110	8.740	90200	99000	2.6	3.2	30.00	HJ419
	420	0.118	4.567	5.315	8.465	9.213	100000	112000	2.6	3.0	34.00	HJ420
	421	0.118	4.764	5.551	--	--	111000	124000	2.4	3.0	38.00	HJ421
	422	0.118	4.961	5.945	--	--	123000	140000	2.2	2.8	48.00	HJ422
	424	0.157	5.512	6.535	10.472	11.417	151000	173000	2.0	2.4	66.00	HJ424
	426	0.157	5.906	7.087	--	--	185000	215000	1.8	2.2	87.00	HJ426
428	0.157	6.299	7.598	12.126	13.386	196000	229000	1.7	2.0	102.00	HJ428	
430	0.157	6.693	8.189	--	--	209000	253000	1.6	2.0	118.00	HJ430	

*Maximum fillet which corner radius of bearing will clear.

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N Style

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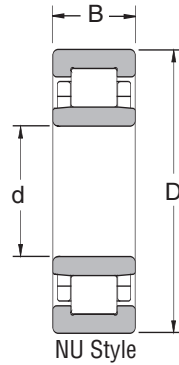
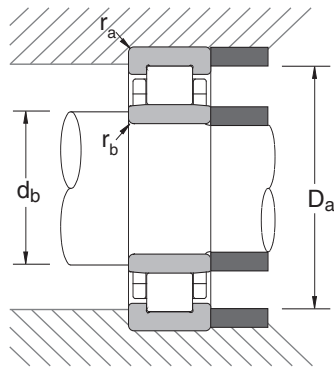
1000 Series
NU and N

Bearing Number		Nominal Bearing Dimensions						Preferred Shoulder Diameters (for shoulders that contact flanged rings)		
		<i>d</i>		<i>D</i>		<i>B</i>		<i>r_a</i> * (in)	<i>da</i> (in)	<i>Da</i> (in)
Prefix	Series	mm	inch	mm	inch	mm	inch	max	min	max
ADD PREFIX NU OR N FOR REQUIRED STYLE	1005	25	0.9843	47	1.8504	12	0.4724	0.024	--	1.693
	1006	30	1.1811	55	2.1654	13	0.5118	0.039	1.378	1.969
	1007	35	1.3780	62	2.4409	14	0.5512	0.039	1.575	2.244
	1008	40	1.5748	68	2.6772	15	0.5906	0.039	1.772	2.480
	1009	45	1.7717	75	2.9528	16	0.6299	0.039	1.969	2.756
	1010	50	1.9685	80	3.1496	16	0.6299	0.039	2.165	2.953
	1011	55	2.1654	90	3.5433	18	0.7087	0.039	2.421	3.287
	1012	60	2.3622	95	3.7402	18	0.7087	0.039	2.618	3.484
	1013	65	2.5591	100	3.9370	18	0.7087	0.039	2.815	3.681
	1014	70	2.7559	110	4.3307	20	0.7874	0.039	3.012	4.075
	1015	75	2.9528	115	4.5276	20	0.7874	0.039	3.209	4.272
	1016	80	3.1496	125	4.9213	22	0.8661	0.039	3.406	4.665
	1017	85	3.3465	130	5.1181	22	0.8661	0.039	3.602	4.862
	1018	90	3.5433	140	5.5118	24	0.9449	0.059	3.858	5.197
	1019	95	3.7402	145	5.7087	24	0.9449	0.059	4.055	5.394
	1020	100	3.9370	150	5.9055	24	0.9449	0.059	4.252	5.591
	1021	105	4.1339	160	6.2992	26	1.0236	0.079	4.488	5.945
	1022	110	4.3307	170	6.6929	28	1.1024	0.079	4.685	6.339
	1024	120	4.7244	180	7.0866	28	1.1024	0.079	5.079	6.732
	1026	130	5.1181	200	7.8740	33	1.2992	0.079	5.472	7.520
1028	140	5.5118	210	8.2677	33	1.2992	0.079	5.866	7.913	
1030	150	5.9055	225	8.8583	35	1.3780	0.079	6.339	8.425	
1032	160	6.2992	240	9.4488	38	1.4961	0.079	6.732	9.016	
1034	170	6.6929	260	10.2362	42	1.6535	0.079	7.126	9.803	
1036	180	7.0866	280	11.0236	46	1.8110	0.079	7.520	10.591	
1038	190	7.4803	290	11.4173	46	1.8110	0.079	7.913	10.984	
1040	200	7.8740	310	12.2047	51	2.0079	0.079	8.307	11.772	
1044	220	8.6614	340	13.3858	56	2.2047	0.098	9.173	12.874	
1048	240	9.4488	360	14.1732	56	2.2047	0.098	9.961	13.661	
1052	260	10.2362	400	15.7480	65	2.5591	0.118	10.866	14.449	
1056	280	11.0236	420	16.5354	65	2.5591	0.118	11.654	15.906	
1060	300	11.8110	460	18.1102	74	2.9134	0.118	12.441	17.480	

*Maximum fillet which corner radius of bearing will clear.

Application Data

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Common Options	
M	: Machined Brass Cage
W	: Pressed Steel Cage
ET	: High Capacity Polyamide Cage
C3	: Loose Internal Clearance
CO†	: Normal Internal Clearance
E	: Electric Motor Quality
† Not shown in part number	

Bearing Number		Preferred Shoulder Diameters (for shoulders that contact unflanged rings)					Basic Load Ratings (lbs)		Limiting Speeds (1000 RPM)		Bearing Weight (Approx.)
		r_b * (in)	d_b (in)		D_b (in)						
Prefix	Series	max	min	max	min	max	C_r	C_{or}	Grease	Oil	lbs
ADD PREFIX NU OR N FOR REQUIRED STYLE	1005	0.012	1.063	1.181	--	--	3210	2930	15.0	18.0	0.21
	1006	0.020	1.339	1.417	1.929	1.929	4400	4400	12.0	15.0	0.30
	1007	0.020	1.535	1.614	2.205	2.283	5080	5190	11.0	13.0	0.390
	1008	0.024	1.732	1.811	2.441	2.520	6120	6490	10.0	12.0	0.48
	1009	0.024	1.929	2.008	2.677	2.795	7260	8030	9.0	11.0	0.61
	1010	0.024	2.126	2.205	2.874	2.992	7260	8140	8.0	10.0	0.65
	1011	0.039	2.362	2.480	3.228	3.228	8470	9790	7.5	9.0	0.96
	1012	0.039	2.559	2.677	3.425	3.543	9020	10900	6.7	8.5	1.03
	1013	0.039	2.756	2.874	3.622	3.740	9240	11400	6.3	8.0	1.09
	1014	0.039	2.953	3.110	3.976	4.134	13100	15800	6.0	7.1	1.51
	1015	0.039	3.150	3.268	4.173	4.331	13400	16700	5.6	6.7	1.59
	1016	0.039	3.346	3.543	4.528	4.724	16300	20400	5.3	6.3	2.11
	1017	0.039	3.543	3.740	4.724	4.921	16700	21500	5.0	6.0	2.20
	1018	0.039	3.799	3.976	5.079	5.256	19800	25700	4.5	5.6	2.93
	1019	0.039	3.996	4.173	5.276	5.453	20400	27100	4.3	5.3	3.06
	1020	0.039	4.193	4.370	5.472	5.650	20900	28200	4.3	5.3	3.17
	1021	0.039	4.390	4.646	5.787	6.043	24400	33400	4.0	4.8	3.98
	1022	0.039	4.587	4.843	6.181	6.437	29500	38900	3.8	4.5	4.93
	1024	0.039	4.980	5.236	6.575	6.831	31000	42900	3.4	4.3	5.30
	1026	0.039	5.374	5.748	7.244	7.618	39600	52800	3.2	3.8	8.01
	1028	0.039	5.768	6.142	7.638	8.012	39400	56100	3.0	3.6	8.47
	1030	0.059	6.220	6.575	8.189	8.543	45300	65800	2.8	3.4	10.00
	1032	0.059	6.614	7.008	8.740	9.134	53200	77000	2.6	3.2	13.00
	1034	0.079	7.126	7.480	9.409	9.803	64200	93500	2.4	2.8	17.00
	1036	0.079	7.520	7.953	10.157	10.591	79200	114000	2.2	2.6	22.00
	1038	0.079	7.913	8.346	10.551	10.984	81400	120000	2.0	2.6	23.00
1040	0.079	8.307	8.898	11.181	11.772	88000	131000	2.0	2.4	31.00	
1044	0.098	9.173	9.724	12.323	12.874	112000	168000	1.8	2.2	40.00	
1048	0.098	9.961	10.472	13.110	13.661	119000	184000	1.6	2.0	43.00	
1052	0.118	10.866	11.496	14.449	15.118	144000	224000	1.5	1.8	64.00	
1056	0.118	11.654	12.283	15.236	15.906	147000	235000	1.4	1.7	67.00	
1060	0.118	12.441	13.228	16.693	17.480	198000	315000	1.3	1.5	96.00	

*Maximum fillet which corner radius of bearing will clear.

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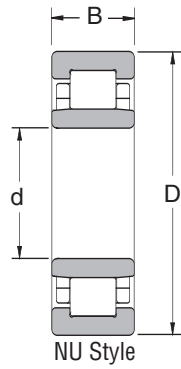
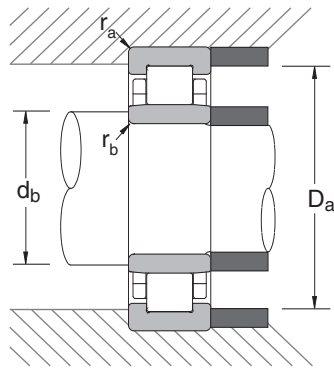
2200 Series
NU, NJ, NUP, NH and HJ Stabilizing Rings

Bearing Number		Nominal Bearing Dimensions						Preferred Shoulder Diameters (for shoulders that contact flanged rings)		
		<i>d</i>		<i>D</i>		<i>B</i>		<i>r_a</i> * (in)	<i>d_a</i> (in)	<i>D_a</i> (in)
Prefix	Series	mm	inch	mm	inch	mm	inch	max	min	max
ADD PREFIX NU, NJ, NUP OR NH FOR REQUIRED STYLE	2205	25	0.9843	52	2.0472	18	0.7087	0.039	1.181	1.850
	2206	30	1.1811	62	2.4409	20	0.7874	0.039	1.378	2.244
	2207	35	1.3780	72	2.8346	23	0.9055	0.039	1.634	2.579
	2208	40	1.5748	80	3.1496	23	0.9055	0.039	1.831	2.894
	2209	45	1.7717	85	3.3465	23	0.9055	0.039	2.028	3.091
	2210	50	1.9685	90	3.5433	23	0.9055	0.039	2.224	3.287
	2211	55	2.1654	100	3.9370	25	0.9843	0.059	2.480	3.622
	2212	60	2.3622	110	4.3307	28	1.1024	0.059	2.677	0.047
	2213	65	2.5591	120	4.7244	31	1.2205	0.059	2.874	4.409
	2214	70	2.7559	125	4.9213	31	1.2205	0.059	3.071	4.606
	2215	75	2.9528	130	5.1181	31	1.2205	0.059	3.268	4.803
	2216	80	3.1496	140	5.5118	33	1.2992	0.079	3.504	5.157
	2217	85	3.3465	150	5.9055	36	1.4173	0.079	3.701	5.551
	2218	90	3.5433	160	6.2992	40	1.5748	0.079	3.898	5.945
	2219	95	3.7402	170	6.6929	43	1.6929	0.079	4.173	6.260
	2220	100	3.9370	180	7.0866	46	1.8110	0.079	4.370	6.654
	2222	110	4.3307	200	7.8740	53	2.0866	0.079	4.764	7.441
	2224	120	4.7244	215	8.4646	58	2.2835	0.079	5.157	8.031
	2226	130	5.1181	230	9.0551	64	2.5197	0.098	5.630	8.543
	2228	140	5.5118	250	9.8425	68	2.6772	0.098	6.024	9.331
	2230	150	5.9055	270	10.6299	73	2.8740	0.098	6.417	10.118
	2232	160	6.2992	290	11.4173	80	3.1496	0.098	6.811	10.906
	2234	170	6.6929	310	12.2047	86	3.3858	0.118	7.323	11.575
	2236	180	7.0866	320	12.5984	86	3.3858	0.118	7.717	11.969
	2238	190	7.4803	340	13.3858	92	3.6220	0.118	8.110	12.756
	2240	200	7.8740	360	14.1732	98	3.8583	0.118	8.504	13.543
	2244	220	8.6614	400	15.7480	108	4.2520	0.118	--	15.118
	2248	240	9.4488	440	17.3228	120	4.7244	0.118	--	16.693
2252	260	10.2362	480	18.8976	130	5.1181	0.157	--	18.110	

*Maximum fillet which corner radius of bearing will clear.

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- Radial Internal Clearance — Table 10.37 on page 331
- Bearing Tolerances — Table 10.12 thru Table 10.16 page 314-17
- Shaft & Housing Fits — Table 10.31 and Table 10.33 page 328-29



Common Options	
M	: Machined Brass Cage
W	: Pressed Steel Cage
ET	: High Capacity Polyamide Cage
C3	: Loose Internal Clearance
CO†	: Normal Internal Clearance
E	: Electric Motor Quality
† Not shown in part number	

Bearing Number		Preferred Shoulder Diameters (for shoulders that contact unflanged rings)			Basic Load Ratings (lbs)		Limiting Speeds (1000 RPM)		Bearing Weight (Approx.) lbs	Stabilizing Ring
		r_b * (in)	d_b (in)	D (in)						
Prefix	Series	max	min		C_r	C_{or}	Grease	Oil		
ADD PREFIX NU, N, NJ, NUP, NF OR NH FOR REQUIRED STYLE	2205	0.024	1.142	This series is not available with unflanged outer rings, so only D_a is required	5300	5130	12.0	14.0	0.36	HJ2205
	2206	0.024	1.339		7370	7480	10.0	12.0	0.58	HJ2206
	2207	0.024	1.535		11000	11600	8.5	10.0	0.90	HJ2207
	2208	0.039	1.831		13100	13900	7.5	9.0	1.08	HJ2208
	2209	0.039	2.028		13800	15200	7.1	8.5	1.18	HJ2209
	2210	0.039	2.224		14400	16500	6.3	8.0	1.26	HJ2210
	2211	0.039	2.421		16900	19600	6.0	7.1	1.70	HJ2211
	2212	0.059	2.677		21600	26000	5.3	6.3	2.35	HJ2212
	2213	0.059	2.874		26800	33400	4.8	6.0	3.19	HJ2213
	2214	0.059	3.071		26800	33900	4.5	5.6	3.32	HJ2214
	2215	0.059	3.268		29000	36300	4.3	5.3	3.41	HJ2215
	2216	0.079	3.504		33000	41800	4.0	5.0	4.25	HJ2216
	2217	0.079	3.701		38100	48800	3.8	4.5	5.46	HJ2217
	2218	0.079	3.898		46400	59400	3.6	4.3	6.95	HJ2218
	2219	0.079	4.173		51700	67100	3.4	4.0	8.45	HJ2219
	2220	0.079	4.370		55200	71500	3.2	3.8	10.00	HJ2220
	2222	0.079	4.764		71500	92400	2.8	3.4	15.00	HJ2222
	2224	0.079	5.157		78100	103000	2.6	3.2	18.00	HJ2224
	2226	0.098	5.630		119000	165000	2.4	3.0	23.00	HJ2226
	2228	0.098	6.024		100000	142000	2.2	2.8	29.00	HJ2228
	2230	0.098	6.417		112000	160000	2.0	2.6	37.00	HJ2230
	2232	0.098	6.811		142000	211000	1.9	2.4	63.00	HJ2232
	2234	0.118	7.323		161000	242000	1.8	2.2	64.00	HJ2234
	2236	0.118	7.717		167000	257000	1.7	2.0	67.00	HJ2236
	2238	0.118	8.110		186000	288000	1.6	2.0	81.00	HJ2238
	2240	0.118	8.504		207000	323000	1.5	1.8	98.00	HJ2240
	2244	0.118	9.291		255000	405000	1.3	1.6	136.00	HJ2244
	2248	0.118	10.079		321000	519000	1.2	1.5	186.00	HJ2248
2252	0.157	11.024	385000	623000	1.1	1.3	242.00	HJ2252		

*Maximum fillet which corner radius of bearing will clear.

C_r = Dynamic Radial Load Rating
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Cylindrical Roller Bearing

2300 Series

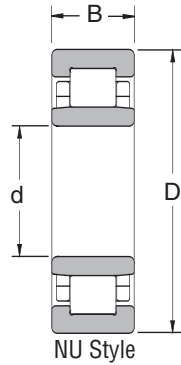
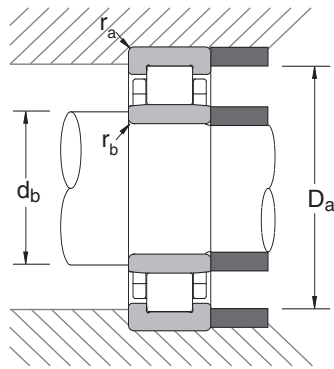
NU, NJ, NUP, NH and HJ Stabilizing Rings

Bearing Number		Nominal Bearing Dimensions						Preferred Shoulder Diameters (for shoulders that contact flanged rings)		
		<i>d</i>		<i>D</i>		<i>B</i>		<i>r_a</i> * (in)	<i>d_a</i> (in)	<i>D_a</i> (in)
Prefix	Series	mm	inch	mm	inch	mm	inch	max	min	max
ADD PREFIX NU, NJ, NUP OR NH FOR REQUIRED STYLE	2305	25	0.9843	62	2.4409	24	0.9449	0.039	1.240	2.185
	2306	30	1.1811	72	2.8346	27	1.0630	0.039	1.437	2.579
	2307	35	1.3780	80	3.1496	31	1.2205	0.059	1.693	2.835
	2308	40	1.5748	90	3.5433	33	1.2992	0.059	1.890	3.228
	2309	45	1.7717	100	3.9370	36	1.4173	0.059	2.087	3.622
	2310	50	1.9685	110	4.3307	40	1.5748	0.079	2.323	3.976
	2311	55	2.1654	120	4.7244	43	1.6929	0.079	2.520	4.370
	2312	60	2.3622	130	5.1181	46	1.8110	0.079	2.795	4.685
	2313	65	2.5591	140	5.5118	48	1.8898	0.079	2.992	5.079
	2314	70	2.7559	150	5.9055	51	2.0079	0.079	3.189	5.472
	2315	75	2.9528	160	6.2992	55	2.1654	0.079	3.386	5.866
	2316	80	3.1496	170	6.6929	58	2.2835	0.079	3.583	6.260
2317	85	3.3465	180	7.0866	60	2.3622	0.098	3.858	6.575	
2318	90	3.5433	190	7.4803	64	2.5197	0.098	4.055	6.969	
2320	100	3.9370	215	8.4646	73	2.8740	0.098	4.449	7.953	
2322	110	4.3307	240	9.4488	80	3.1496	0.098	4.843	8.937	
2324	120	4.7244	260	10.2362	86	3.3858	0.098	5.236	9.724	
2326	130	5.1181	280	11.0236	93	3.6614	0.118	5.748	10.394	
2328	140	5.5118	300	11.8110	102	4.0157	0.118	6.142	11.181	
2330	150	5.9055	320	12.5984	108	4.2520	0.118	6.535	11.969	
2332	160	6.2992	340	13.3858	114	4.4882	0.118	6.929	12.756	
2334	170	6.6929	360	14.1732	120	4.7244	0.118	7.323	13.543	
2336	180	7.0866	380	14.9606	126	4.9606	0.118	--	11.969	
2338	190	7.4803	400	15.7480	132	5.1969	0.157	--	14.961	
2340	200	7.8740	420	16.5354	138	5.4331	0.157	--	15.748	

*Maximum fillet which corner radius of bearing will clear.

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Common Options	
M	: Machined Brass Cage
W	: Pressed Steel Cage
ET	: High Capacity Polyamide Cage
C3	: Loose Internal Clearance
CO†	: Normal Internal Clearance
E	: Electric Motor Quality
† Not shown in part number	

Bearing Number		Preferred Shoulder Diameters (for shoulders that contact unflanged rings)			Basic Load Ratings (lbs)		Limiting Speeds (1000 RPM)		Bearing Weight (Approx.) lbs	Stabilizing Ring
		r _b * (in)	d _b (in)	D(in)						
Prefix	Series	max	min	This series is not available with unflanged outer rings, so only D _a is required	C _r	C _{or}	Grease	Oil		
ADD PREFIX NU, N, NJ, NUP, NF OR NH FOR REQUIRED STYLE	2305	0.039	1.240		This series is not available with unflanged outer rings, so only D _a is required	9570	9240	9.0	11.0	0.76
	2306	0.039	1.437	11600		11400	7.5	9.5	1.12	HJ2306
	2307	0.039	1.634	13500		13500	7.1	8.5	1.52	HJ2307
	2308	0.059	1.890	18500		19700	6.0	7.5	2.08	HJ2308
	2309	0.059	2.087	22200		23300	5.6	6.7	2.73	HJ2309
	2310	0.079	2.323	27100		29500	5.0	6.3	3.70	HJ2310
	2311	0.079	2.520	33200		36300	4.5	5.6	4.71	HJ2311
	2312	0.079	2.795	37800		42200	4.3	5.3	5.83	HJ2312
	2313	0.079	2.992	42000		47700	3.8	4.8	7.08	HJ2313
	2314	0.079	3.189	49900		58700	3.6	4.5	8.80	HJ2314
	2315	0.079	3.386	57900		68200	3.4	4.3	11.00	HJ2315
	2316	0.079	3.583	61400		74800	3.2	4.0	14.00	HJ2316
	2317	0.098	3.858	70400		85800	3.0	3.8	15.00	HJ2317
	2318	0.098	4.055	73700		88000	2.8	3.6	18.00	HJ2318
	2320	0.098	4.449	92400		113000	2.4	3.2	26.00	HJ2320
	2322	0.098	4.843	128000		164000	2.2	2.8	41.00	HJ2322
	2324	0.098	5.236	160000		206000	2.0	2.6	52.00	HJ2324
	2326	0.118	5.748	188000		253000	1.9	2.4	64.00	HJ2326
	2328	0.118	6.142	207000		280000	1.7	2.2	81.00	HJ2328
	2330	0.118	6.535	229000		315000	1.6	2.0	98.00	HJ2330
2332	0.118	6.929	240000	341000	1.5	1.9	116.00	HJ2332		
2334	0.118	7.323	275000	394000	1.4	1.8	139.00	HJ2334		
2336	0.118	7.717	310000	447000	1.3	1.7	160.00	HJ2336		
2338	0.157	8.268	341000	497000	1.3	1.6	186.00	HJ2338		
2340	0.157	8.661	339000	504000	1.2	1.5	212.00	HJ2340		

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