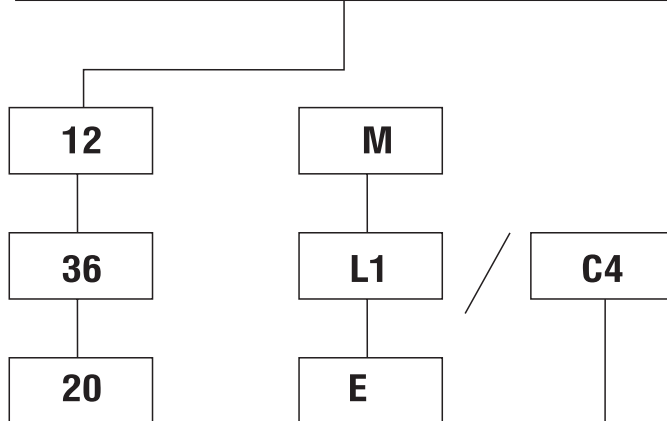
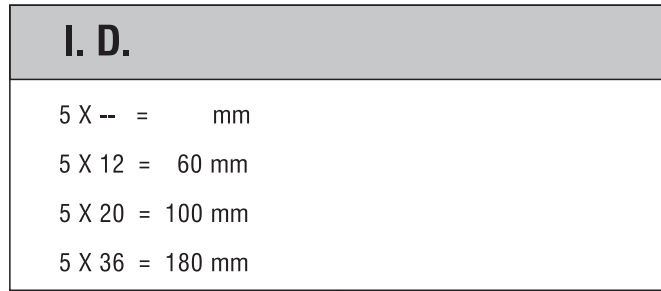


Size designation

0:	N 1000
2:	N 200
2:	N 2200
3:	N 300
3:	N 2300
4:	N 400



Designs, Types and Features

E: reinforced structure
 M: brass solid retainer
 L1: aluminium alloy retainer
 Q1: Al-Fe bronze retainer

Tolerance class

/P0: Equals tolerance class ABEC1
 /P6: Equals tolerance class ABEC3
 /P5: Equals tolerance class ABEC5
 /P4: Equals tolerance class ABEC7

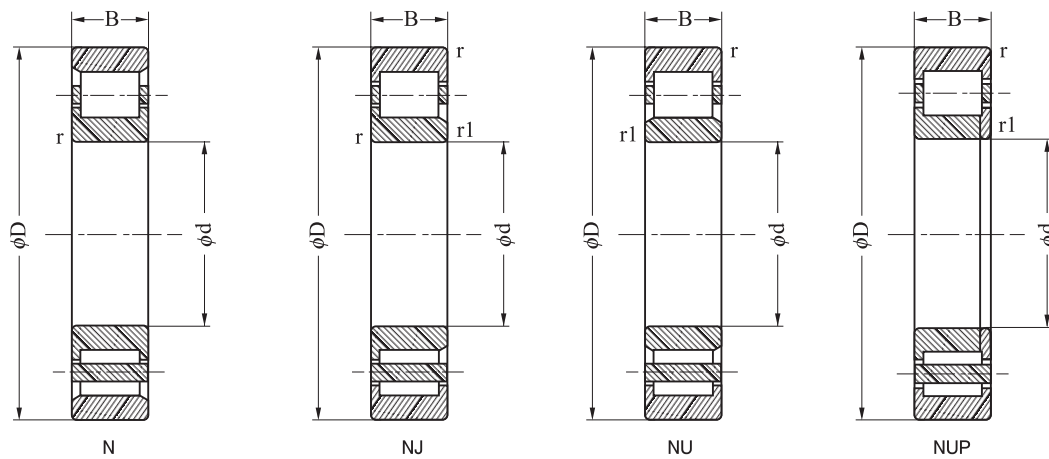
Working temperature:

/S1: Working temperature is up to 200 °C
 /S2: Working temperature is up to 250 °C
 /S3: Working temperature is up to 300 °C
 /S4: Working temperature is up to 350 °C

Clearance:

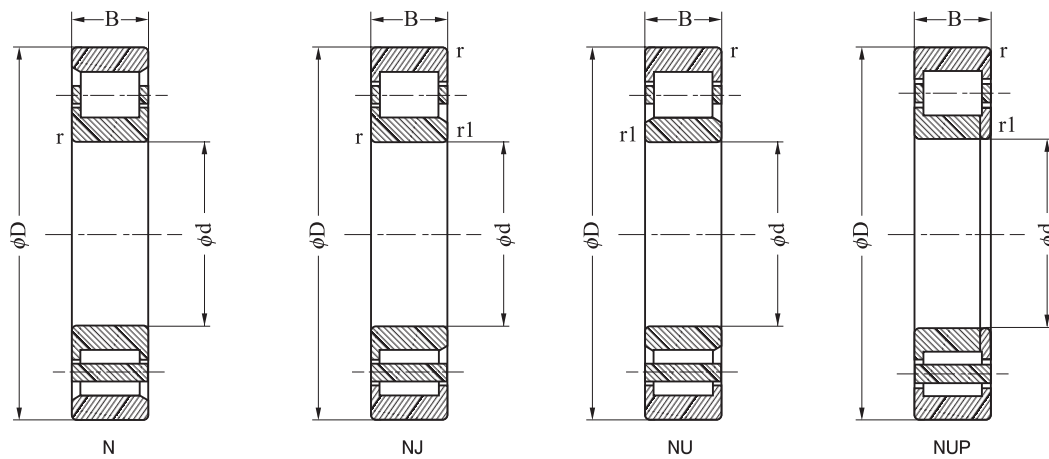
/C2: Less than nominal clearance
 /C0: Nominal clearance, omitted in designation
 /C3: Larger clearance, than C0
 /C4: Larger clearance, than C3
 /C5: Larger clearance, than C4
 /W33: a lubricating groove and three lubricating holes on the outer race

CYLINDRICAL ROLLER BEARINGS



Principal dimensions mm (in)					Weight kg (lb)	Bearing Number	Basic Load Rating kN (lbf)		Limiting Speed (rpm)	
d	D	B	r _{imin}	r _{smin}			Dynamic C _r	Static Cor	Grease	Oil
15 0.5905	35 1.3779	11 0.4330	0.6 0.023	0.3 0.011		N202				
17 0.6692	40 1.5748	12 0.4724	0.6 0.023	0.3 0.011		N203				
20 0.7874	47 1.8503	14 0.5511	1.0 0.039	0.6 0.023	0.109 0.240	N204	16.6 3740	13.9 3130	17000	20000
25 0.9842	52 2.0472	15 0.5905	1.0 0.039	0.6 0.023	0.134 0.295	N205	18.8 4230	17.0 3830	14000	16000
30 1.1811	62 2.4409	16 0.6299	1.1 0.043	0.6 0.023	0.203 0.447	N206	24.9 5600	23.3 5240	12000	14000
35 1.3779	72 2.8346	17 0.6692	1.1 0.043	0.6 0.023	0.289 0.637	N207	35.5 7990	34.0 7650	11000	12000
40 1.5748	80 3.1496	18 0.7086	1.1 0.043	1.1 0.043	0.370 0.815	N208	43.5 9790	43.0 9680	9400	11000
45 1.7716	85 3.3464	19 0.7480	1.1 0.043	1.1 0.043	0.423 0.932	N209	46.0 10350	47.0 10580	8400	9900
50 1.9685	90 3.5433	20 0.7874	1.5 0.059	1.1 0.043	0.460 1.014	N210	50.5 11360	54.5 12260	7600	9000
55 2.1653	100 3.9370	21 0.8267	1.5 0.059	1.1 0.043	0.626 1.380	N211	61.0 13730	66.5 14960	6900	8200
60 2.3622	110 4.3307	22 0.8661	1.5 0.059	1.5 0.059	0.802 1.768	N212	72.0 16200	80.0 18000	6400	7600
65 2.559	120 4.7244	23 0.9055	1.5 0.059	1.5 0.059	1.000 2.205	N213	84.0 18900	94.5 21260	5900	7000
70 2.7559	125 4.9212	24 0.9448	1.5 0.059	1.5 0.059	1.100 2.425	N214	87.50 19690	101.0 22730	5500	6500
75 2.9527	130 5.1181	25 0.9842	2.0 0.078	1.5 0.059	1.210 2.668	N215	101.0 22730	118.0 26550	5100	6000
80 3.1496	140 5.5118	26 1.0236	2.0 0.078	2.0 0.078	1.470 3.241	N216	111.0 24980	130.0 29250	4800	5700
85 3.3464	150 5.9055	28 1.1023	2.0 0.078	2.0 0.078	1.830 4.035	N217	126.0 28350	149.0 33530	4500	5300
90 3.5433	160 6.2992	30 1.1811	2.1 0.082	2.0 0.078	2.250 4.961	N218	152.0 34200	178.0 40050	4300	5000
95 3.7401	170 6.6929	32 1.2598	1.1 0.043	2.1 0.082	2.720 5.997	N219	166.0 37350	195.0 43880	4000	4700
20 0.7874	52 2.0472	15 0.5905	1.1 0.043	0.6 0.023	0.149 0.328	N304	23.1 5200	19.2 4320	14000	17000
25 0.9842	62 2.4409	17 0.6692	1.1 0.043	1.1 0.043	0.235 0.518	N305	31.5 7090	27.7 6230	12000	14000
30 1.1811	72 2.8346	19 0.7480	1.5 0.059	1.1 0.043	0.350 0.771	N306	38.5 8660	35.0 7880	10000	12000
35 1.3779	80 3.1496	21 0.8267	1.5 0.059	1.1 0.043	0.451 0.994	N307	49.5 11140	47.0 10580	9000	11000
40 1.5748	90 3.5433	23 0.9055	1.5 0.059	1.5 0.059	0.643 1.417	N308	58.5 13160	57.0 12830	8000	9400
45 1.7716	100 3.9370	25 0.9842	2.0 0.079	1.5 0.059	0.857 1.889	N309	79.0 17780	77.5 17440	7200	8400
50 1.9685	110 4.3307	27 1.0629	2.0 0.079	2.0 0.079	1.110 2.447	N310	87.0 19580	86.0 19350	6500	7700
55 2.1653	120 4.7244	29 1.1417	2.1 0.082	2.0 0.079	1.420 3.131	N311	111.0 24980	111.0 24980	5900	7000
60 2.3622	130 5.1181	31 1.2204	2.1 0.082	2.1 0.082	1.760 3.880	N312	124.0 27900	126.0 28350	5500	6500
65 2.559	140 5.5118	33 1.2992	2.1 0.082	2.1 0.082	2.180 4.806	N313	135.0 30380	139.0 31280	5100	6000
70 2.7559	150 5.9055	35 1.3779	2.1 0.082	2.1 0.082	2.65 5.843	N314	158.0 35550	168.0 37800	4700	5500
80 3.1496	170 6.6929	39 1.5354	3.0 0.118	2.1 0.082	3.770 8.312	N316	201.0 45230	223.0 50180	4100	4800
85 3.3464	180 7.0866	41 1.6141	3.0 0.118	3.0 0.118	4.440 9.790	N317	225.0 50630	247.0 55380	3900	4600
90 3.5433	190 7.4803	43 1.6929	3.0 0.118	3.0 0.118	5.180 11.421	N318	240.0 54000	265.0 59630	3700	4300
95 3.7401	200 7.8740	45 1.7716	3.0 0.118	3.0 0.118	5.990 13.207	N319	274.0 61650	310.0 69750	3400	4000
15 0.5905	35 1.3779	11 0.4330	0.6 0.023	0.3 0.011		NJ202				
17 0.6692	40 1.5748	12 0.4724	0.6 0.023	0.3 0.011		NJ203				

CYLINDRICAL ROLLER BEARINGS



Principal dimensions mm (in)					Weight kg (lb)	Bearing Number	Basic Load Rating kN (lbf)		Limiting Speed (rpm)	
d	D	B	r _{imin}	r _{smin}			Dynamic C _r	Static Cor	Grease	Oil
20 0.7874	47 1.8503	14 0.5511	1.0 0.039	0.6 0.023	0.111 0.244	NJ204	16.6 3740	13.9 3130	17000	20000
25 0.9842	52 2.0472	15 0.5905	1.0 0.039	0.6 0.023	0.137 0.302	NJ205	18.8 4230	17.0 3830	14000	16000
30 1.1811	62 2.4409	16 0.6299	1.0 0.039	0.6 0.023	0.207 0.445	NJ206	24.9 5600	23.3 5240	12000	14000
35 1.3779	72 2.8346	17 0.6692	1.1 0.043	0.6 0.023	0.295 0.65	NJ207	35.5 7990	34.0 7650	11000	12000
40 1.5748	80 3.1496	18 0.7086	1.1 0.043	1.1 0.043	0.378 0.833	NJ208	43.5 9790	43.0 9680	9400	11000
45 1.7716	85 3.3464	19 0.7480	1.1 0.043	1.1 0.043	0.432 0.952	NJ209	46.0 10350	47.0 10580	8400	9900
50 1.9685	90 3.5433	20 0.7874	1.1 0.043	1.1 0.043	0.470 1.036	NJ210	50.5 11360	54.5 12260	7600	9000
55 2.1653	100 3.9370	21 0.8267	1.5 0.059	1.1 0.043	0.626 1.380	NJ211	61.0 13730	66.5 14960	6900	8200
60 2.3622	110 4.3307	22 0.8661	1.5 0.059	1.5 0.059	0.802 1.768	NJ212	72.0 16200	80.0 18000	6400	7600
65 2.559	120 4.7244	23 0.9055	1.5 0.059	1.5 0.059	1.000 2.205	NJ213	84.0 18900	94.5 21260	5900	7000
70 2.7559	125 4.9212	24 0.9448	1.5 0.059	1.5 0.059	1.100 2.425	NJ214	87.5 19690	101.0 22730	5500	6500
75 2.9527	130 5.1181	25 0.9842	1.5 0.059	1.5 0.059	1.210 2.668	NJ215	101.0 22730	118.0 26550	5100	6000
80 3.1496	140 5.5118	26 1.0236	2.0 0.078	2.0 0.078	1.470 3.241	NJ216	111.0 24980	130.0 29250	4800	5700
85 3.3464	150 5.9055	28 1.1023	2.0 0.078	2.0 0.078	1.830 4.035	NJ217	126.0 28350	149.0 33530	4500	5300
90 3.5433	160 6.2992	30 1.1811	2.0 0.078	2.0 0.078	2.250 4.961	NJ218	152.0 34200	178.0 40050	4300	5000
95 3.7401	170 6.6929	32 1.2598	2.1 0.082	2.1 0.082	2.720 5.997	NJ219	166.0 37350	195.0 43880	4000	4700
25 0.9842	52 2.0472	18 0.7086	1.1 0.043	0.6 0.023	0.170 0.374	NJ2205V	35.3 7940	29.4 6620	12000	25000
25 0.9842	62 2.4409	24 0.9448	1.1 0.043	1.1 0.043		NJ2305V				
20 0.7874	52 2.0472	15 0.5905	1.1 0.043	0.6 0.023	0.153 0.337	NJ304	23.1 5200	19.2 4320	14000	17000
25 0.9842	62 2.4409	17 0.6692	1.1 0.043	1.1 0.043	0.241 0.531	NJ305	31.5 7090	27.7 6230	12000	14000
30 1.1811	72 2.8346	19 0.7480	1.1 0.043	1.1 0.043	0.358 0.789	NJ306	38.5 8660	35.0 7880	10000	12000
35 1.3779	80 3.1496	21 0.8267	1.5 0.059	1.1 0.043	0.461 1.016	NJ307	49.5 11140	47.0 10580	9000	11000
40 1.5748	90 3.5433	23 0.9055	1.5 0.059	1.5 0.059	0.658 1.450	NJ308	58.5 13160	57.0 12830	8000	9400
45 1.7716	100 3.9370	25 0.9842	1.5 0.059	1.5 0.059	0.877 1.933	NJ309	79.0 17780	77.5 17440	7200	8400
45 1.7716	100 3.9370	25 0.9842	1.5 0.059	1.5 0.059		NJ309V				
50 1.9685	110 4.3307	27 1.0629	2 0.078	1.14 0.078	2.0 2.513	NJ310	87.0 19580	86.0 19350	6500	7700
55 2.1653	120 4.7244	29 1.1417	2.0 0.078	2.0 0.078	1.450 3.197	NJ311	111.0 24980	111.0 24980	5900	7000
60 2.3622	130 5.1181	31 1.2204	2.1 0.082	2.1 0.082	1.800 3.969	NJ312	124.0 27900	126.0 28350	5500	6500
65 2.559	140 5.5118	33 1.2992	2.1 0.082	2.1 0.082	2.230 4.917	NJ313	135.0 30380	139.0 31280	5100	6000
70 2.7559	150 5.9055	35 1.3779	2.1 0.082	2.1 0.082	2.710 5.975	NJ314	158.0 35550	168.0 37800	4700	5500
75 2.9527	160 6.2992	37 1.4566	2.1 0.082	2.1 0.082	3.860 8.511	NJ315	190 42750	205 46130	4400	5200
80 3.1496	170 6.6929	39 1.5354	2.1 0.082	2.1 0.082	3.860 8.511	NJ316	201.0 45230	223.0 50180	4100	4800
85 3.3464	180 7.0866	41 1.6141	3.0 0.118	3.0 0.118	4.540 10.010	NJ317	225.0 50630	247.0 55580	3900	4600
90 3.5433	190 7.4803	43 1.6929	3.0 0.118	3.0 0.118	5.300 11.686	NJ318	240.0 54000	265.0 59630	3700	4300
95 3.7401	200 7.8740	45 1.7716	3.0 0.118	3.0 0.118	6.130 13.516	NJ319	274.0 61650	310.0 69750	3400	4000