

Cylindrical Roller Bearings



Internal Radial Clearance of Cylindrical Roller Bearings is as follows:

d (mm)		Internal Radial Clearance							
		CN(μm)		C3(μm)		C4(μm)		C5(μm)	
>	\leq	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.
1	24	20	45	35	60	50	75	65	90
24	30	20	45	35	60	50	75	70	95
30	40	25	50	45	70	60	85	80	105
40	50	30	60	50	80	70	100	95	125
50	65	40	70	60	90	80	110	110	140
65	80	40	75	65	100	90	125	130	165

Tolerance of Inner Ring:

Unit: μm

d		I.D.Tolerance		Width Tolerance	
>	\leq	Max	Min	Max	Min
20	30	0	-10	0	-120
30	50	0	-12	0	-120
50	80	0	-15	0	-150
80	120	0	-20	0	-200
120	180	0	-25	0	-250
180	250	0	-30	0	-300
250	315	0	-35	0	-350
315	400	0	-40	0	-400
400	500	0	-45	0	-450

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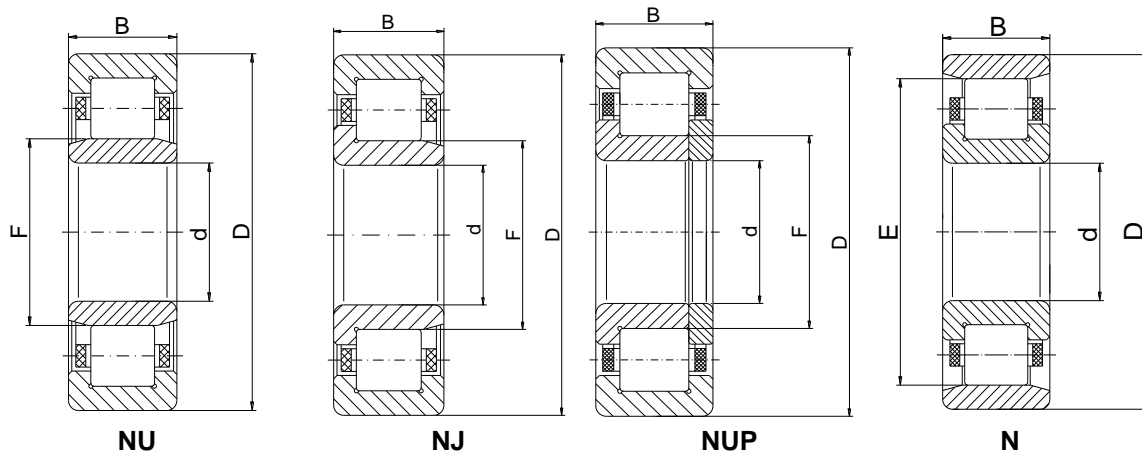
Tolerance of Outer Ring:

Unit: μm

D		O.D.Tolerance		Width Tolerance	
>	\leq	Max	Min	Max	Min
30	50	0	-11	0	-120
50	80	0	-13	0	-150
80	120	0	-15	0	-200
120	150	0	-18	0	-250
150	180	0	-25	0	-250
180	250	0	-30	0	-300
250	315	0	-35	0	-350
315	400	0	-40	0	-400
400	500	0	-45	0	-450

Tolerances for Roller Inscribed Circle Diameter F_w and Roller Circumscribed Circle Diameter E_w of Cylindrical Roller Bearings: Unit: μm

d		Tolerances for F_w of NU, NJ, NUP		Tolerances for E_w of N	
>	\leq	Max	Min	Max	Min
~	20	+10	0	0	-10
20	50	+15	0	0	-15
50	120	+20	0	0	-20
120	200	+25	0	0	-25
200	250	+30	0	0	-30
250	315	+35	0	0	-35
315	400	+40	0	0	-40
400	500	+45	0	~	~



Part number	Dimension(mm)				Alternative	Load Rating(KN)		Limited speed(RPM)	Weight (Kg)
	d	D	B	F, E		Dynamic	Static		
NU202ECP	15	35	11	19.3		12.5	10.2	26000	0.047
NJ202ECP	15	35	11	19.3		12.5	10.2	26000	0.048
NU203ECP	17	40	12	22.1	ML	17.2	14.3	22000	0.068
NJ203ECP	17	40	12	22.1	ML	17.2	14.3	22000	0.07
NUP203ECP	17	40	12	22.1	ML	17.2	14.3	22000	0.073
N203ECP	17	40	12	35.1		17.2	14.3	22000	0.066
NU2203ECP	17	40	16	22.1		23.8	21.6	22000	0.087
NJ2203ECP	17	40	16	22.1		23.8	21.6	22000	0.093

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NUP2203ECP	17	40	16	22.1		23.8	21.6	22000	0.097
NU303ECP	17	47	14	24.2		24.6	20.4	20000	0.12
NJ303ECP	17	47	14	24.2		24.6	20.4	20000	0.12
N303ECP	17	47	14	40.2		24.6	20.4	20000	0.12
NU204ECP	20	47	14	26.5	ML	25.1	22	19000	0.11
NJ204ECP	20	47	14	26.5	ML	25.1	22	19000	0.11
NUP204ECP	20	47	14	26.5	ML	25.1	22	19000	0.12
N204ECP	20	47	14	41.5		25.1	22	19000	0.11
NU2204ECP	20	47	18	26.5		29.7	27.5	19000	0.14
NJ2204ECP	20	47	18	26.5		29.7	27.5	19000	0.14
NU304ECP	20	52	15	27.5		35.5	26	18000	0.15
NJ304ECP	20	52	15	27.5		35.5	26	18000	0.15
NUP304ECP	20	52	15	27.5		35.5	26	18000	0.16
N304ECP	20	52	15	45.5		35.5	26	18000	0.15
NU2304ECP	20	52	21	27.5		47.5	38	18000	0.21
NJ2304ECP	20	52	21	27.5		47.5	38	18000	0.22
NUP2304ECP	20	52	21	27.5		47.5	38	18000	0.23
NU1005	25	47	12	30.5		14.2	13.2	18000	0.083
NU205ECP	25	52	15	31.5	J,ML	28.6	27	16000	0.13
NJ205ECP	25	52	15	31.5	J,ML	28.6	27	16000	0.14
NUP205ECP	25	52	15	31.5	ML	28.6	27	16000	0.14
N205ECP	25	52	15	46.5		28.6	27	16000	0.13
NU2205ECP	25	52	18	31.5	ML	34.1	34	16000	0.16
NJ2205ECP	25	52	18	31.5	ML	34.1	34	16000	0.17
NUP2205ECP	25	52	18	31.5	ML	34.1	34	16000	0.17
NU305ECP	25	62	17	34	J,ML	46.5	36.5	15000	0.24
NJ305ECP	25	62	17	34	J,ML	46.5	36.5	15000	0.24
NUP305ECP	25	62	17	34	J,ML	46.5	36.5	15000	0.25
N305ECP	25	62	17	54		46.5	36.5	15000	0.24
NU2305ECP	25	62	24	34	J,ML	64	55	15000	0.34
NJ2305ECP	25	62	24	34	ML	64	55	15000	0.35
NUP2305ECP	25	62	24	34	ML	64	55	15000	0.36
NU1006	30	55	13	36.5		17.9	17.3	15000	0.12
NU206ECP	30	62	16	37.5	J,ML	44	36.5	14000	0.2
NJ206ECP	30	62	16	37.5	J,ML	44	36.5	14000	0.2
NUP206ECP	30	62	16	37.5	ML	44	36.5	14000	0.21
N206ECP	30	62	16	55.5		44	36.5	14000	0.2
NU2206ECP	30	62	20	37.5	J,ML	55	49	14000	0.26
NJ2206ECP	30	62	20	37.5	J,ML	55	49	14000	0.26
NUP2206ECP	30	62	20	37.5	ML	55	49	14000	0.27
NU306ECP	30	72	19	40.5	J,M,ML	58.5	48	12000	0.36
NJ306ECP	30	72	19	40.5	J,M,ML	58.5	48	12000	0.36
NUP306ECP	30	72	19	40.5	J,M,ML	58.5	48	12000	0.38
N306ECP	30	72	19	62.5		58.5	48	12000	0.36
NU2306ECP	30	72	27	40.5	ML	83	75	12000	0.53
NJ2306ECP	30	72	27	40.5	ML	83	75	12000	0.54
NUP2306ECP	30	72	27	40.5	ML	83	75	12000	0.55
NU406	30	90	23	45		60.5	53	11000	0.75
NJ406	30	90	23	45		60.5	53	11000	0.79
NU1007ECP	35	62	14	42		35.8	38	13000	0.16
NU207ECP	35	72	17	44	J,M,ML	56	48	12000	0.29
NJ207ECP	35	72	17	44	J,M,ML	56	48	12000	0.3
NUP207ECP	35	72	17	44	J,M,ML	56	48	12000	0.31
N207ECP	35	72	17	64		56	48	12000	0.3

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NU2207ECP	35	72	23	44	J,ML	69.5	63	12000	0.4
NJ2207ECP	35	72	23	44	J,ML	69.5	63	12000	0.41
NUP2207ECP	35	72	23	44	ML	69.5	63	12000	0.42
NU307ECP	35	80	21	46.2	J,M,ML	75	63	11000	0.47
NJ307ECP	35	80	21	46.2	J,M,ML	75	63	11000	0.49
NUP307ECP	35	80	21	46.2	J,M,ML	75	63	11000	0.5
N307ECP	35	80	21	70.2		75	63	11000	0.48
NU2307ECP	35	80	31	46.2	J	106	98	11000	0.72
NJ2307ECP	35	80	31	46.2		106	98	11000	0.73
NUP2307ECP	35	80	31	46.2		106	98	11000	0.76
NU407	35	100	25	53		76.5	69.5	9500	1
NJ407	35	100	25	53		76.5	69.5	9500	1.05
NU1008ML	40	68	15	47		25.1	26	18000	0.23
NU208ECP	40	80	18	49.5	J,M,ML	62	53	11000	0.37
NJ208ECP	40	80	18	49.5	J,M,ML	62	53	11000	0.39
NUP208ECP	40	80	18	49.5	J,M,ML	62	53	11000	0.4
N208ECP	40	80	18	71.5		62	53	11000	0.37
NU2208ECP	40	80	23	49.5	J,ML	81.5	75	11000	0.49
NJ2208ECP	40	80	23	49.5	J,ML	81.5	75	11000	0.5
NUP2208ECP	40	80	23	49.5	J,ML	81.5	75	11000	0.51
NU308ECP	40	90	23	52	J,M,ML	93	78	9500	0.65
NJ308ECP	40	90	23	52	J,M,ML	93	78	9500	0.67
NUP308ECP	40	90	23	52	M,ML	93	78	9500	0.68
N308ECP	40	90	23	80		93	78	9500	0.65
NU2308ECP	40	90	33	52	J,M,ML	129	120	9500	0.94
NJ2308ECP	40	90	33	52	J,M,ML	129	120	9500	0.95
NUP2308ECP	40	90	33	52	M,ML	129	120	9500	0.98
NU408	40	110	27	58		96.8	90	8500	1.25
NJ408	40	110	27	58		96.8	90	8500	1.3
NU1009ECP	45	75	16	52.5		44.6	52	11000	0.26
NU209ECP	45	85	19	54.5	J,M,ML	69.5	64	9500	0.43
NJ209ECP	45	85	19	54.5	J,M,ML	69.5	64	9500	0.44
NUP209ECP	45	85	19	54.5	J,M,ML	69.5	64	9500	0.45
N209ECP	45	85	19	76.5		69.5	64	9500	0.43
NU2209ECP	45	85	23	54.5	J	85	81.5	9500	0.52
NJ2209ECP	45	85	23	54.5	J	85	81.5	9500	0.54
NUP2209ECP	45	85	23	54.5		85	81.5	9500	0.55
NU309ECP	45	100	25	58.5	J,M,ML	112	100	8500	0.9
NJ309ECP	45	100	25	58.5	J,M,ML	112	100	8500	0.92
NUP309ECP	45	100	25	58.5	J,ML	112	100	8500	0.95
N309ECP	45	100	25	88.5		112	100	8500	0.88
NU2309ECP	45	100	36	58.5	ML	160	153	8500	1.3
NJ2309ECP	45	100	36	58.5	ML	160	153	8500	1.33
NUP2309ECP	45	100	36	58.5	ML	160	153	8500	1.36
NU409	45	120	29	64.5		106	102	7500	1.64
NJ409	45	120	29	64.5		106	102	7500	1.67
NU1010ECP	50	80	16	57.5		46.8	56	9500	0.27
NU210ECP	50	90	20	59.5	J,M,ML	73.5	69.5	9000	0.48
NJ210ECP	50	90	20	59.5	J,M,ML	73.5	69.5	9000	0.49
NUP210ECP	50	90	20	59.5	J,ML	73.5	69.5	9000	0.51
N210ECP	50	90	20	81.5		73.5	69.5	9000	0.48
NU2210ECP	50	90	23	59.5	J,M,ML	90	88	9000	0.56
NJ2210ECP	50	90	23	59.5	J,M,ML	90	88	9000	0.57
NUP2210ECP	50	90	23	59.5	J,ML	90	88	9000	0.59

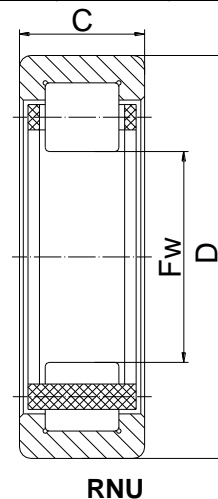
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NU310ECP	50	110	27	65	J,M,ML	127	112	8000	1.14
NJ310ECP	50	110	27	65	J,M,ML	127	112	8000	1.17
NUP310ECP	50	110	27	65	J,M,ML	127	112	8000	1.2
N310ECP	50	110	27	97	M	127	112	8000	1.14
NU2310ECP	50	110	40	65	ML	186	186	8000	1.73
NJ2310ECP	50	110	40	65	ML	186	186	8000	1.77
NUP2310ECP	50	110	40	65	ML	186	186	8000	1.8
NU410	50	130	31	70.8		130	127	7000	2
NJ410	50	130	31	70.8		130	127	7000	2.05
NU1011ECP	55	90	18	64.5		57.2	69.5	8500	0.39
NU211ECP	55	100	21	66	J,M,ML	96.5	95	8000	0.66
NJ211ECP	55	100	21	66	J,M,ML	96.5	95	8000	0.67
NUP211ECP	55	100	21	66	J,M,ML	96.5	95	8000	0.69
N211ECP	55	100	21	90	M	96.5	95	8000	0.66
NU2211ECP	55	100	25	66	J,M,ML	114	118	8000	0.79
NJ2211ECP	55	100	25	66	J,M,ML	114	118	8000	0.81
NUP2211ECP	55	100	25	66	J,ML	114	118	8000	0.82
NU311ECP	55	120	29	70.5	J,M,ML	156	143	7000	1.45
NJ311ECP	55	120	29	70.5	J,M,ML	156	143	7000	1.5
NUP311ECP	55	120	29	70.5	J,M,ML	156	143	7000	1.55
N311ECP	55	120	29	106.5	M	156	143	7000	1.45
NU2311ECP	55	120	43	70.5	ML	232	232	7000	2.2
NJ2311ECP	55	120	43	70.5	ML	232	232	7000	2.25
NUP2311ECP	55	120	43	70.5	ML	232	232	7000	2.3
NU411	55	140	33	77.2		142	140	6300	2.5
NJ411	55	140	33	77.2		142	140	6300	2.55
NU1012ML	60	95	18	69.5		37.4	44	11000	0.48
NU212ECP	60	110	22	72	J,M,ML	108	102	7500	0.8
NJ212ECP	60	110	22	72	J,M,ML	108	102	7500	0.83
NUP212ECP	60	110	22	72	J,ML	108	102	7500	0.86
N212ECP	60	110	22	100	M	108	102	7500	0.8
NU2212ECP	60	110	28	72	J,M,ML	146	153	7500	1.05
NJ2212ECP	60	110	28	72	J,M,ML	146	153	7500	1.1
NUP2212ECP	60	110	28	72	J,ML	146	153	7500	1.15
NU312ECP	60	130	31	77	J,M,ML	173	160	6700	1.77
NJ312ECP	60	130	31	77	J,M,ML	173	160	6700	1.83
NUP312ECP	60	130	31	77	J,M,ML	173	160	6700	1.9
N312ECP	60	130	31	115	M	173	160	6700	1.8
NU2312ECP	60	130	46	77	ML	260	265	6700	2.75
NJ2312ECP	60	130	46	77	ML	260	265	6700	2.8
NUP2312ECP	60	130	46	77	ML	260	265	6700	2.85
NU412	60	150	35	83		168	173	6000	3
NJ412	60	150	35	83		168	173	6000	3.1
NU1013ECP	65	100	18	74		62.7	81.5	7500	0.45
NU213ECP	65	120	23	78.5	J,M,ML	122	118	6700	1.03
NJ213ECP	65	120	23	78.5	J,M,ML	122	118	6700	1.07
NUP213ECP	65	120	23	78.5	J,ML	122	118	6700	1.1
N213ECP	65	120	23	108.5		122	118	6700	1.05
NU2213ECP	65	120	31	78.5	J	170	180	6700	1.4
NJ2213ECP	65	120	31	78.5	J	170	180	6700	1.45
NUP2213ECP	65	120	31	78.5		170	180	6700	1.5
NU313ECP	65	140	33	82.5	J,M,ML	212	196	6000	2.2
NJ313ECP	65	140	33	82.5	J,M,ML	212	196	6000	2.3
NUP313ECP	65	140	33	82.5	J,ML	212	196	6000	2.35

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N313ECP	65	140	33	124.5	M	212	196	6000	2.2
NU2313ECP	65	140	48	82.5	ML	285	290	6000	3.2
NJ2313ECP	65	140	48	82.5	ML	285	290	6000	3.35
NUP2313ECP	65	140	48	82.5	ML	285	290	6000	3.5
NU413	65	160	37	89.3		1836	190	5600	3.6
NJ413	65	160	37	89.3		183	190	5600	3.65
NU1014ECP	70	110	20	79.5		76.5	93	7000	0.62
NU214ECP	70	125	24	83.5	J,M,ML	137	137	6300	1.15
NJ214ECP	70	125	24	83.5	J,M,ML	137	137	6300	1.15
NUP214ECP	70	125	24	83.5	M,ML	137	137	6300	1.2
N214ECP	70	125	24	113.5		137	137	6300	1.15
NU2214ECP	70	125	31	83.5	J,M,ML	180	193	6300	1.5
NJ2214ECP	70	125	31	83.5	M,ML	180	193	6300	1.55
NUP2214ECP	70	125	31	83.5	M,ML	180	193	6300	1.55
NU314ECP	70	150	35	89	J,M,ML	236	228	5600	2.7
NJ314ECP	70	150	35	89	J,M,ML	236	228	5600	2.9
NUP314ECP	70	150	35	89	M,ML	236	228	5600	2.85
N314ECP	70	150	35	133	M	236	228	5600	2.7
NU2314ECP	70	150	51	89	ML	315	325	5600	3.9
NJ2314ECP	70	150	51	89	ML	315	325	5600	4
NUP2314ECP	70	150	51	89	ML	315	325	5600	4.1
NU414	70	180	42	100		229	240	5000	5.35
NJ414	70	180	42	100		229	240	5000	5.45
NU1015ML	75	115	20	85		58.3	71	10000	0.75
NU215ECP	75	130	25	88.5	J,M,ML	150	156	6000	1.25
NJ215ECP	75	130	25	88.5	J,M,ML	150	156	6000	1.3
NUP215ECP	75	130	25	88.5	M,ML	150	156	6000	1.35
N215ECP	75	130	25	118.5		150	156	6000	1.2
NU2215ECP	75	130	31	88.5	J,ML	186	208	6000	1.6
NJ2215ECP	75	130	31	88.5	J,ML	186	208	6000	1.6
NUP2215ECP	75	130	31	88.5	J,ML	186	208	6000	1.65
NU315ECP	75	160	37	95	J,M,ML	280	265	5300	3.3
NJ315ECP	75	160	37	95	J,M,ML	280	265	5300	3.35
NUP315ECP	75	160	37	95	M,ML	280	265	5300	3.45
N315ECP	75	160	37	143	M	280	265	5300	3.3
NU2315ECP	75	160	55	95	J,ML	380	400	5300	4.8
NJ2315ECP	75	160	55	95	ML	380	400	5300	5
NUP2315ECP	75	160	55	95	ML	380	400	5300	5.2
NU415	75	190	45	104.5		264	280	4800	6.2
NJ415	75	190	45	104.5		264	280	4800	6.4

Part Number	Dimension(mm)			Load Rating(KN)		Limited speed(RPM)
	Fw	D	C	Dynamic	Static	
RNU202ECP	19.3	35	11	12.5	10.2	26000
RNU203ECP	22.1	40	12	17.2	14.3	22000
RNU2203ECP	22.1	40	16	23.8	21.6	22000
RNU203TN9	22.9	40	12	10.8	5.2	22000
RNU204ECP	26.5	47	14	25.1	22	19000
RNU204	27	47	14	14.7	7.35	19000
RNU2304ECP	27.5	52	21	47.5	38	18000
RNU304	28.5	52	15	20.5	10.4	18000
RNU205ECP	31.5	52	15	28.6	27	16000
RNU2205ECP	31.5	52	18	34.1	34	16000



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RNU205	32	52	15	16.8	8.8	17000
RNU305	35	62	17	28.6	15	15000
RNU1006	36.5	55	13	17.9	17.3	15000
RNU206ECP	37.5	62	16	44	36.5	14000
RNU2206ECP	37.5	62	20	55	49	14000
RNU1007ECP	42	62	14	35.8	38	13000
RNU306	42	72	19	36.9	20	12000
RNU207ECP	44	72	17	56	48	12000
RNU2207ECP	44	72	23	69.5	63	12000
RNU307ECP	46.2	80	21	75	63	11000
RNU2307	46.2	80	31	58.3	35.5	11000
RNU2307ECP	46.2	80	31	106	98	11000
RNU208ECP	49.5	80	18	62	53	11000
RNU2208ECP	49.5	80	23	81.5	75	11000
RNU308ECP	52	90	23	93	78	9500
RNU1009ECP	52.5	75	16	44.6	52	11000
RNU209ECP	54.5	85	19	69.5	64	9500
RNU309ECP	58.5	100	25	112	100	8500
RNU2210ECP	59.5	90	23	90	88	9000