

Cylindrical Roller Bearings (Cage Type):

Single Row Cylindrical Roller Bearings have no ribs on either the inner or outer ring, so the rings can move axially relative to each other. These can be used as free-end bearings. Ex-NU**/N** type.

Single Row Cylindrical Roller Bearings, in which either the inner or outer rings has two ribs and the other ring has one, are capable of taking some axial load in one direction. Ex-NJ**/NUP**/NF**/NP** type.

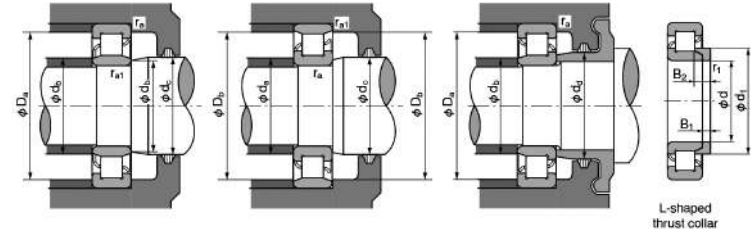
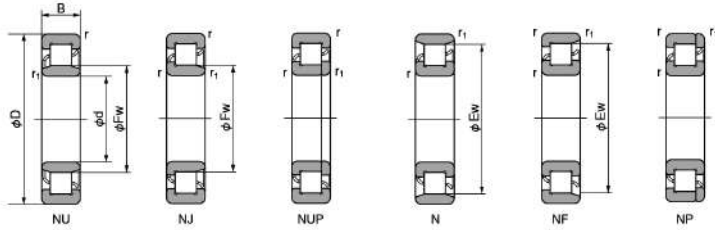


Suffix and Corresponding Description For Single Row Cylindrical Roller Bearings	
Suffix	Description of Suffix
M	Machined Brass Cage
TVP	Glass fiber reinforced Polyamide PA66 Cage
J	Steel Cage
E	High Capacity
K	Tapered Bore
C1	Radial Internal Clearance C1 (Clearance lesser than C2)
C2	Radial Internal Clearance C2 (Clearance lesser than CN)
No Symbol	(CN) Normal Internal Clearance
C3	Radial Internal Clearance C3 (Clearance Larger than Normal)
C4	Radial Internal Clearance C4 (Clearance Larger than C3)
No Symbol	ISO Normal
P6	ISO Class 6
P5	ISO Class 5
P4	ISO Class 4
P2	ISO Class 2

Single Row Cylindrical Roller Bearings (Cage Type)



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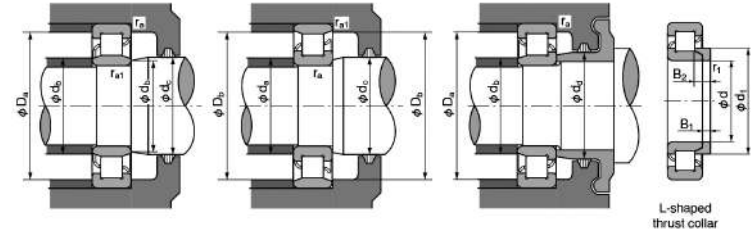
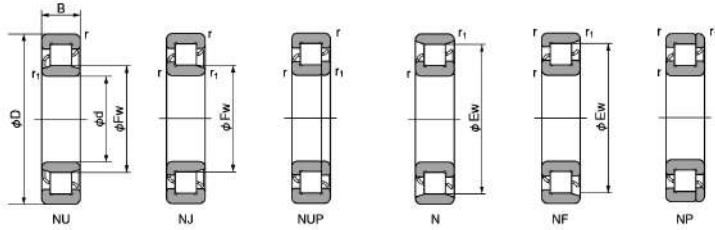
Boundary Dimensions						Basic Load Rating		Limiting Speed		Bearing Designation						Mass		
(mm)						(KN)		(rpm)		NU	NJ	NUP	N	NF	NP	(kg)		
d	D	B	E _w	F _w	r (min)	r ₁ (min)	Cr	Cor	Grease	Oil	NU	NJ	NUP	N	NF	NP	NU	N
17	40	12	33.9	22.9	0.6	0.3	12.60	7.95	16000	19000	NU203	NJ	NUP	N	NF	NP	0.082	0.080
20	47	14	40	27	1	0.6	15.40	12.70	15000	18000	NU204	NJ	NUP	N	NF	NP	0.112	0.110
20	47	14	-	26.5	1	0.6	25.70	22.60	13000	16000	NU204E	NJ	NUP	-	-	-	0.124	-
20	47	18	-	27	1	0.6	20.70	18.40	14000	17000	NU2204	NJ	NUP	-	-	-	0.144	-
20	47	18	-	26.5	1	0.6	30.50	28.30	13000	16000	NU2204E	NJ	NUP	-	-	-	0.162	-
20	52	15	44.5	28.5	1.1	0.6	21.40	17.30	12000	15000	NU304	NJ	NUP	N	NF	NP	0.154	0.150
20	52	15	-	27.5	1.1	0.6	31.50	26.90	12000	15000	NU304E	NJ	NUP	-	-	-	0.150	-
20	52	21	-	28.5	1.1	0.6	30.50	27.20	11000	14000	NU2304	NJ	NUP	-	-	-	0.213	-
20	52	21	-	27.5	1.1	0.6	42.00	39.00	11000	14000	NU2304E	NJ	NUP	-	-	-	0.240	-
25	47	12	41.5	30.5	0.6	0.3	14.30	13.10	15000	18000	NU1005	-	-	N	-	-	0.086	0.084
25	52	15	45	32	1	0.6	17.70	15.70	13000	16000	NU205	NJ	NUP	N	NF	NP	0.133	0.130
25	52	15	-	31.5	1	0.6	29.30	27.70	12000	14000	NU205E	NJ	NUP	-	-	-	0.140	-
25	52	18	-	32	1	0.6	24.30	23.50	12000	14000	NU2205	NJ	NUP	-	-	-	0.163	-
25	52	18	-	31.5	1	0.6	35.00	34.50	12000	14000	NU2205E	NJ	NUP	-	-	-	0.185	-
25	62	17	53	35	1.1	1.1	29.30	25.20	10000	13000	NU305	NJ	NUP	N	NF	NP	0.238	0.230
25	62	17	-	34	1.1	1.1	41.50	37.50	10000	12000	NU305E	NJ	NUP	-	-	-	0.240	-
25	62	24	-	35	1.1	1.1	42.50	41.00	9300	11000	NU2305	NJ	NUP	-	-	-	0.340	-
25	62	24	-	34	1.1	1.1	57.00	56.00	9000	11000	NU2305E	NJ	NUP	-	-	-	0.390	-
25	80	21	62.8	38.8	1.5	1.5	46.50	40.00	9000	11000	NU405	NJ	NUP	N	NF	NP	0.564	0.550
30	55	13	48.5	36.5	1	0.6	19.70	19.60	12000	15000	NU1006	-	-	N	-	-	0.123	0.121
30	62	16	53.5	38.5	1	0.6	23.50	21.50	11000	13000	NU206	NJ	NUP	N	NF	NP	0.204	0.200
30	62	16	-	37.5	1	0.6	39.00	37.50	9500	12000	NU206E	NJ	NUP	-	-	-	0.210	-
30	62	20	-	38.5	1	0.6	33.00	33.00	10000	12000	NU2206	NJ	NUP	-	-	-	0.262	-
30	62	20	-	37.5	1	0.6	49.00	50.00	9500	12000	NU2206E	NJ	NUP	-	-	-	0.295	-
30	72	19	62	42	1.1	1.1	38.50	35.00	8500	11000	NU306	NJ	NUP	N	NF	NP	0.357	0.350
30	72	19	-	40.5	1.1	1.1	53.00	50.00	8500	10000	NU306E	NJ	NUP	-	-	-	0.370	-
30	72	27	-	42	1.1	1.1	51.50	51.00	8200	9800	NU2306	NJ	NUP	-	-	-	0.500	-
30	72	27	-	40.5	1.1	1.1	74.50	77.50	8000	9500	NU2306E	NJ	NUP	-	-	-	0.585	-
30	90	23	73	45	1.5	1.5	62.50	55.00	7500	9500	NU406	NJ	NUP	N	NF	NP	0.770	0.750
35	62	14	55	42	1	0.6	22.60	23.20	11000	13000	NU1007	-	-	N	-	-	0.185	0.182

Abutment and Fillet Dimensions (mm)										Dimensions of L-Shaped Thrust Collar (mm)						
d _a	d _b	d _c	d _d	D _a	D _b	r _a	r _{a1}			Bearing Designation	d	d ₁	B ₁	B ₂	r ₁	Mass Approx (Kg)
(min)	(min)	(max)	(min)	(min)	(max)	(min)	(max)	(max)	(max)		(max)	(max)			(min)	
22	19	22	24	25	35	34	34	0.6	0.3	-	-	-	-	-	-	-
26	25	26	29	32	41	42	42	1	0.6	HJ204	20	30	3	6.75	0.6	0.012
-	25	26	29	32	41	-	-	1	0.6	HJ204 E	20	29.8	3	5.5	0.6	0.011
-	25	26	29	32	41	-	-	1	0.6	HJ2204	20	30	3	7.5	0.6	0.012
-	25	26	29	32	41	-	-	1	0.6	HJ2204 E	20	29.8	3	6.5	0.6	0.011
27	25	27	30	33	45	47	47	1	0.6	HJ304	20	31.8	4	7.5	0.6	0.017
-	25	27	30	33	45	-	-	1	0.6	HJ304 E	20	31.4	4	6.5	0.6	0.016
-	25	27	30	33	45	-	-	1	0.6	HJ2304	20	31.8	4	8.5	0.6	0.018
-	25	27	30	33	45	-	-	1	0.6	HJ2304 E	20	31.4	4	7.5	0.6	0.017
29	27.5	30	32	-	42	45	41.8	0.6	0.3	-	-	-	-	-	-	-
31	30	31	34	37	46	47	47	1	0.6	HJ205	25	35	3	7.25	0.6	0.015
-	30	31	34	37	46	-	-	1	0.6	HJ205 E	25	34.8	3	6	0.6	0.013
-	30	31	34	37	46	-	-	1	0.6	HJ2205	25	35	3	7.5	0.6	0.016
-	30	31	34	37	46	-	-	1	0.6	HJ2205 E	25	34.8	3	6.5	0.6	0.015
32	32	33	37	40	55	55	55	1	1	HJ305	25	39	4	8	1.1	0.027
-	32	33	37	40	55	-	-	1	1	HJ305 E	25	38.2	4	7	1.1	0.024
-	32	33	37	40	55	-	-	1	1	HJ2305	25	39	4	9	1.1	0.029
-	32	33	37	40	55	-	-	1	1	HJ2305 E	25	38.2	4	8	1.1	0.026
33.5	33.5	38	41	46	71.5	71.5	64	1.5	1.5	HJ405	25	43.6	6	10.5	1.5	0.054
35	33.5	35	38	-	49	52	49	1	0.6	-	-	-	-	-	-	-
36	35	37	40	44	56	57	56	1	0.6	HJ206	30	41.8	4	8.25	0.6	0.026
-	35	37	40	44	56	-	-	1	0.6	HJ206 E	30	41.4	4	7	0.6	0.024
-	35	37	40	44	56	-	-	1	0.6	HJ2206	30	41.8	4	8.5	0.6	0.026
-	35	37	40	44	56	-	-	1	0.6	HJ2206 E	30	41.4	4	7.5	0.6	0.025
37	37	40	44	48	65	65	64	1	1	HJ306	30	45.9	5	9.5	1.1	0.044
-	37	40	44	48	65	-	-	1	1	HJ306 E	30	45.1	5	8.5	1.1	0.041
-	37	40	44	48	65	-	-	1	1	HJ2306	30	45.9	5	11.5	1.1	0.048
-	37	40	44	48	65	-	-	1	1	HJ2306 E	30	45.1	5	9.5	1.1	0.043
38.5	38.5	44	47	52	81.5	81.5	74	1.5	1.5	HJ406	30	50.5	7	11.5	1.5	0.080
40	38.5	41	44	-	56	59	55.5	1	0.6	-	-	-	-	-	-	-

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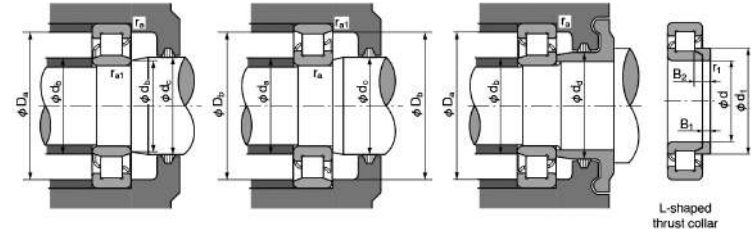
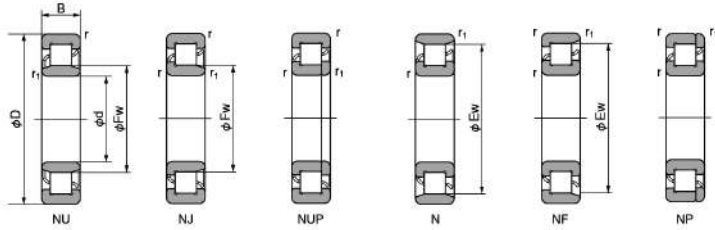
Boundary Dimensions								Basic Load Rating		Limiting Speed		Bearing Designation						Mass	
(mm)								(KN)		(rpm)		NU	NJ	NUP	N	NF	NP	NU	N
d	D	B	E _w	F _w	r (min)	r ₁ (min)	Cr	Cor	Grease	Oil									
35	72	17	61.8	43.8	1.1	0.6	33.50	31.50	9500	11000	NU207	NJ	NUP	N	NF	NP	0.295	0.290	
35	72	17	-	44	1.1	0.6	50.50	50.00	8500	10000	NU207E	NJ	NUP	-	-	-	0.300	-	
35	72	23	-	43.8	1.1	0.6	49.00	51.00	8500	10000	NU2207	NJ	NUP	-	-	-	0.402	-	
35	72	23	-	44	1.1	0.6	61.50	65.00	8500	10000	NU2207E	NJ	NUP	-	-	-	0.446	-	
35	80	21	68.2	46.2	1.5	1.1	49.50	47.00	8000	9500	NU307	NJ	NUP	N	NF	NP	0.470	0.460	
35	80	21	-	46.2	1.5	1.1	66.50	65.50	7500	9500	NU307E	NJ	NUP	-	-	-	0.490	-	
35	80	31	-	46.2	1.5	1.1	60.50	60.00	7200	8600	NU2307	NJ	NUP	-	-	-	0.696	-	
35	80	31	-	46.2	1.5	1.1	99.00	109.00	6800	8500	NU2307E	NJ	NUP	-	-	-	0.780	-	
35	100	25	83	53	1.5	1.5	75.50	69.00	6700	8000	NU407	NJ	NUP	-	NF	NP	1.05	1.02	
40	68	15	61	47	1	0.6	27.30	29.00	10000	12000	NU1008	-	-	N	-	-	0.226	0.223	
40	80	18	70	50	1.1	1.1	43.50	43.00	8500	10000	NU208	NJ	NUP	-	NF	NP	0.369	0.360	
40	80	18	-	49.5	1.1	1.1	55.50	55.50	9500	9000	NU208E	NJ	NUP	-	-	-	0.380	-	
40	80	23	-	50	1.1	1.1	58.00	62.00	7500	9000	NU2208	NJ	NUP	-	-	-	0.490	-	
40	80	23	-	49.5	1.1	1.1	72.50	77.50	7500	9000	NU2208E	NJ	NUP	-	-	-	0.743	-	
40	90	23	77.5	53.5	1.5	1.5	58.50	57.00	6700	8500	NU308	NJ	NUP	N	NF	NP	0.665	0.650	
40	90	23	-	52	1.5	1.5	83.00	81.50	6700	8000	NU308E	NJ	NUP	-	-	-	0.670	-	
40	90	33	-	53.5	1.5	1.5	82.50	88.00	6500	7800	NU2308	NJ	NUP	-	-	-	0.956	-	
40	90	33	-	52	1.5	1.5	114.00	122.00	6400	7700	NU2308E	NJ	NUP	-	-	-	1.05	-	
40	110	27	92	58	2	2	95.50	89.00	6000	7500	NU408	NJ	NUP	N	NF	NP	1.33	1.30	
45	75	16	67.5	52.5	1	0.6	32.50	35.50	9000	11000	NU1009	-	-	N	-	-	0.284	0.289	
45	85	19	75	55	1.1	1.1	46.00	47.00	7500	9000	NU209	NJ	NUP	N	NF	NP	0.430	0.420	
45	85	19	-	54.5	1.1	1.1	63.00	66.50	7000	8500	NU209E	NJ	NUP	-	-	-	0.440	-	
45	85	23	-	55	1.1	1.1	61.50	68.00	7400	8900	NU2209	NJ	NUP	-	-	-	0.536	-	
45	85	23	-	54.5	1.1	1.1	76.00	84.50	7000	8500	NU2209E	NJ	NUP	-	-	-	0.593	-	
45	100	25	86.5	58.5	1.5	1.5	78.50	77.50	6300	7500	NU309	NJ	NUP	N	NF	NP	0.871	0.850	
45	100	25	-	58.5	1.5	1.5	97.50	98.50	6000	7500	NU309E	NJ	NUP	-	-	-	0.910	-	
45	100	36	-	58.5	1.5	1.5	99.00	104.00	6100	7300	NU2309	NJ	NUP	-	-	-	1.25	-	
45	100	36	-	58.5	1.5	1.5	137.00	153.00	6000	7200	NU2309E	NJ	NUP	-	-	-	1.40	-	
45	120	29	100.5	64.5	2	2	107.00	102.00	5600	6700	NU409	NJ	NUP	N	NF	NP	1.67	1.64	
50	80	16	72.5	57.5	1	0.6	32.00	36.00	8500	10000	NU1010	-	-	N	-	-	0.310	0.306	

Abutment and Fillet Dimensions (mm)											Dimensions of L-Shaped Thrust Collar (mm)						
d _a	d _b	d _c	d _d	D _a	D _b	r _a	r _{a1}				Bearing Designation	d	d ₁	B ₁	B ₂	r ₁	Mass Approx (Kg)
(min)	(min)	(max)	(min)	(min)	(max)	(min)	(max)	(min)	(max)	(max)		(max)	(max)			(min)	
42	40	43	46	50	65	67	64	1	0.6		HJ207	35	47.6	4	8	0.6	0.032
-	40	43	46	50	65	-	-	1	0.6		HJ207 E	35	48.2	4	7	0.6	0.032
-	40	43	46	50	65	-	-	1	0.6		HJ2207	35	47.6	4	8.5	0.6	0.033
-	40	43	46	50	65	-	-	1	0.6		HJ2207 E	35	48.2	4	8.5	0.6	0.035
43.5	42	45	48	53	71.5	73	71	1.5	1		HJ307	35	50.8	6	11	1.1	0.060
-	42	45	48	53	71.5	-	-	1.5	1		HJ307 E	35	51.1	6	9.5	1.1	0.058
-	42	45	48	53	71.5	-	-	1.5	1		HJ2307	35	50.8	6	14	1.1	0.067
-	42	45	48	53	71.5	-	-	1.5	1		HJ2307 E	35	51.1	6	11	1.1	0.062
43.5	43.5	52	55	61	91.5	91.5	84	1.5	1.5		HJ407	35	59	8	13	1.5	0.120
45	45	46	49	-	62	64	61.5	1	0.6		-	-	-	-	-	-	-
47	47	49	52	56	73	73	72	1	1		HJ208	40	54.2	5	9	1.1	0.049
-	47	49	52	56	73	-	-	1	1		HJ208 E	40	54.1	5	8.5	1.1	0.047
-	47	49	52	56	73	-	-	1	1		HJ2208	40	54.2	5	9.5	1.1	0.050
-	47	49	52	56	73	-	-	1	1		HJ2208 E	40	54.1	5	9	1.1	0.049
48.5	48.5	51	55	60	81.5	81.5	80	1.5	1.5		HJ308	40	58.4	7	12.5	1.5	0.090
-	48.5	51	55	60	81.5	-	-	1.5	1.5		HJ308 E	40	57.7	7	11	1.5	0.084
-	48.5	51	55	60	81.5	-	-	1.5	1.5		HJ2308	40	58.4	7	14.5	1.5	0.097
-	48.5	51	55	60	81.5	-	-	1.5	1.5		HJ2308 E	40	57.7	7	12.5	1.5	0.090
50	50	57	60	67	100	100	93	2	2		HJ408	40	64.8	8	13	2	0.144
50	50	52	54	-	69	71	68	1	0.6		-	-	-	-	-	-	-
52	52	54	57	61	78	78	77	1	1		HJ209	45	59	5	9.5	1.1	0.054
-	52	54	57	61	78	-	-	1	1		HJ209 E	45	59.1	5	8.5	1.1	0.053
-	52	54	57	61	78	-	-	1	1		HJ2209	45	59	5	9.5	1.1	0.054
-	52	54	57	61	78	-	-	1	1		HJ2209 E	45	59.1	5	9	1.1	0.054
53.5	53.5	57	60	66	91.5	91.5	89	1.5	1.5		HJ309	45	64	7	12.5	1.5	0.105
-	53.5	57	60	66	91.5	-	-	1.5	1.5		HJ309 E	45	64.5	7	11.5	1.5	0.103
-	53.5	57	60	66	91.5	-	-	1.5	1.5		HJ2309	45	64	7	15	1.5	0.115
-	53.5	57	60	66	91.5	-	-	1.5	1.5		HJ2309 E	45	64.5	7	13	1.5	0.112
55	55	63	66	74	110	110	102	2	2		HJ409	45	71.8	8	13.5	2	0.176
53	55	57	59	-	74	76	73	1	0.6		-	-	-	-	-	-	-

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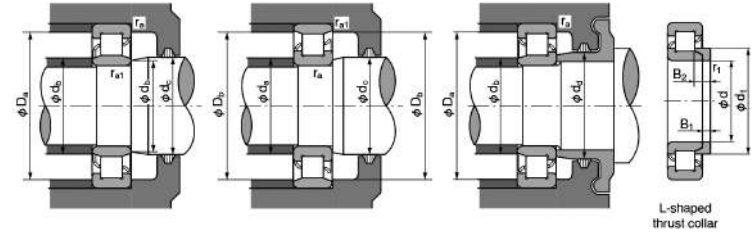
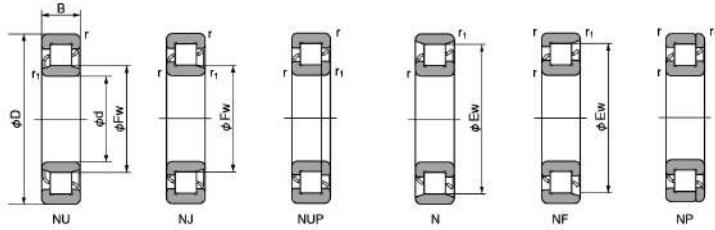
Boundary Dimensions								Basic Load Rating		Limiting Speed		Bearing Designation						Mass	
(mm)								(KN)		(rpm)		NU	NJ	NUP	N	NF	NP	NU	N
d	D	B	E _w	F _w	r (min)	r ₁ (min)	Cr	Cor	Grease	Oil									
50	90	20	80.4	60.4	1.1	1.1	48.00	51.00	7100	8500	NU210	NJ	NUP	N	NF	NP	0.481	0.470	
50	90	20	-	59.5	1.1	1.1	69.00	76.50	6400	7700	NU210E	NJ	NUP	-	-	-	0.490	-	
50	90	23	-	60.4	1.1	1.1	64.00	73.50	6500	8000	NU2210	NJ	NUP	-	-	-	0.580	-	
50	90	23	-	59.5	1.1	1.1	83.50	97.00	6400	8000	NU2210E	NJ	NUP	-	-	-	0.632	-	
50	110	27	95	65	2	2	87.00	86.00	5600	6700	NU310	NJ	NUP	N	NF	NP	1.17	1.14	
50	110	27	-	65	2	2	110.00	113.00	5400	6500	NU310E	NJ	NUP	-	-	-	1.17	-	
50	110	40	-	65	2	2	121.00	131.00	5400	6500	NU2310	NJ	NUP	-	-	-	1.69	-	
50	110	40	-	65	2	2	163.00	187.00	5400	6500	NU2310E	NJ	NUP	-	-	-	1.85	-	
50	130	31	110.8	70.8	2.1	2.1	138.00	136.00	5000	6000	NU410	NJ	NUP	N	NF	NP	2.05	2.01	
55	90	18	80.5	64.5	1.1	1	37.50	44.00	7500	9000	NU1011	-	-	N	-	-	0.449	0.445	
55	100	21	88.5	66.5	1.5	1.1	58.00	62.50	6300	7500	NU211	NJ	NUP	N	NF	NP	0.634	0.630	
55	100	21	-	66	1.5	1.1	86.50	98.50	5800	7100	NU211E	NJ	NUP	-	-	-	0.670	-	
55	100	25	-	66.5	1.5	1.1	75.50	87.00	6200	7400	NU2211	NJ	NUP	-	-	-	0.780	-	
55	100	25	-	66	1.5	1.1	101.00	122.00	5800	7100	NU2211E	NJ	NUP	-	-	-	0.870	-	
55	120	29	104.5	70.5	2	2	111.00	111.00	5000	6300	NU311	NJ	NUP	N	NF	NP	1.43	1.40	
55	120	29	-	70.5	2	2	137.00	143.00	4800	5600	NU311E	NJ	NUP	-	-	-	1.50	-	
55	120	43	-	70.5	2	2	148.00	162.00	4800	5600	NU2311	NJ	NUP	-	-	-	2.10	-	
55	120	43	-	70.5	2	2	201.00	233.00	4800	5600	NU2311E	NJ	NUP	-	-	-	2.35	-	
55	140	33	117.2	77.2	2.1	2.1	139.00	138.00	4800	5600	NU411	NJ	NUP	N	NF	NP	2.54	2.51	
60	95	18	85.5	69.5	1.1	1	40.00	48.50	6700	8500	NU1012	-	-	N	-	-	0.484	0.477	
60	110	22	97.5	73.5	1.5	1.5	68.50	75.00	6000	7100	NU212	NJ	NUP	N	NF	NP	0.835	0.820	
60	110	22	-	72	1.5	1.5	97.50	107.00	5300	6300	NU212E	NJ	NUP	-	-	-	0.921	-	
60	110	28	-	73.5	1.5	1.5	96.00	116.00	5300	6300	NU2212	NJ	NUP	-	-	-	1.07	-	
60	110	28	-	72	1.5	1.5	131.00	157.00	5300	6300	NU2212E	NJ	NUP	-	-	-	1.23	-	
60	130	31	113	77	2.1	2.1	124.00	126.00	4800	5600	NU312	NJ	NUP	N	NF	NP	1.82	1.78	
60	130	31	-	77	2.1	2.1	150.00	157.00	4300	5000	NU312E	NJ	NUP	-	-	-	1.87	-	
60	130	46	-	77	2.1	2.1	169.00	188.00	4300	5300	NU2312	NJ	NUP	-	-	-	2.69	-	
60	130	46	-	77	2.1	2.1	222.00	262.00	4300	5300	NU2312E	NJ	NUP	-	-	-	3.01	-	
60	150	35	127	83	2.1	2.1	167.00	168.00	4300	5300	NU412	NJ	NUP	N	NF	NP	3.05	3.02	
65	100	18	90.5	74.5	1.1	1	41.00	51.00	6300	8000	NU1013	-	-	N	-	-	0.514	0.580	

Abutment and Fillet Dimensions (mm)											Dimensions of L-Shaped Thrust Collar (mm)						
d _a	d _b	d _c	d _d	D _a	D _b	r _a	r _{a1}				Bearing Designation	d	d ₁	B ₁	B ₂	r ₁	Mass Approx (Kg)
(min)	(min)	(max)	(min)	(min)	(max)	(min)	(max)	(min)	(max)	(max)		(max)	(max)			(min)	
57	57	58	62	67	83	83	83	1	1		HJ210	50	64.6	5	10	1.1	0.063
-	57	58	62	67	83	-	-	1	1		HJ210 E	50	64.1	5	9	1.1	0.059
-	57	58	62	67	83	-	-	1	1		HJ2210	50	64.6	5	9.5	1.1	0.062
-	57	58	62	67	83	-	-	1	1		HJ2210 E	50	64.1	5	9	1.1	0.059
60	60	63	67	73	100	100	98	2	2		HJ310	50	71	8	14	2	0.145
-	60	63	67	73	100	-	-	2	2		HJ310 E	50	71.4	8	13	2	0.145
-	60	63	67	73	100	-	-	2	2		HJ2310	50	71	8	17	2	0.159
-	60	63	67	73	100	-	-	2	2		HJ2310 E	50	71.4	8	14.5	2	0.152
62	62	69	73	81	118	118	112	2	2		HJ410	50	78.8	9	14.5	2.1	0.230
61.5	61	63	66	-	83	85	81.5	1	1		-	-	-	-	-	-	-
63.5	62	65	68	73	91.5	93	91	1.5	1		HJ211	55	70.8	6	11	1.1	0.086
-	62	65	68	73	91.5	-	-	1.5	1		HJ211 E	55	70.9	6	9.5	1.1	0.083
-	62	65	68	73	91.5	-	-	1.5	1		HJ2211	55	70.8	6	11	1.1	0.086
-	62	65	68	73	91.5	-	-	1.5	1		HJ2211 E	55	70.9	6	10	1.1	0.085
65	65	69	72	80	110	110	107	2	2		HJ311	55	77.2	9	15	2	0.186
-	65	69	72	80	110	-	-	2	2		HJ311 E	55	77.6	9	14	2	0.186
-	65	69	72	80	110	-	-	2	2		HJ2311	55	77.2	9	18.5	2	0.206
-	65	69	72	80	110	-	-	2	2		HJ2311 E	55	77.6	9	15.5	2	0.195
67	67	76	79	87	128	128	119	2	2		HJ411	55	85.2	10	16.5	2.1	0.292
66.5	66	68	71	-	88	90	86.5	1	1		-	-	-	-	-	-	-
68.5	68.5	71	75	80	101.5	101.5	100	1.5	1.5		HJ212	60	78.4	6	11	1.5	0.109
-	68.5	71	75	80	101.5	-	-	1.5	1.5		HJ212 E	60	77.7	6	10	1.5	0.104
-	68.5	71	75	80	101.5	-	-	1.5	1.5		HJ2212	60	78.4	6	11	1.5	0.109
-	68.5	71	75	80	101.5	-	-	1.5	1.5		HJ2212 E	60	77.7	6	10	1.5	0.104
72	72	75	79	86	118	118	116	2	2		HJ312	60	84.2	9	15.5	2.1	0.224
-	72	75	79	86	118	-	-	2	2		HJ312 E	60	84.5	9	14.5	2.1	0.222
-	72	75	79	86	118	-	-	2	2		HJ2312	60	84.2	9	19	2.1	0.248
-	72	75	79	86	118	-	-	2	2		HJ2312 E	60	84.5	9	16	2.1	0.232
72	72	82	85	94	118	118	128	2	2		HJ412	60	91.8	10	16.5	2.1	0.336
71.5	71	73	75	-	93	95	91.5	1	1		-	-	-	-	-	-	-

Single Row Cylindrical Roller Bearings (Cage Type)



Single Row Cylindrical Roller Bearings (Cage Type)



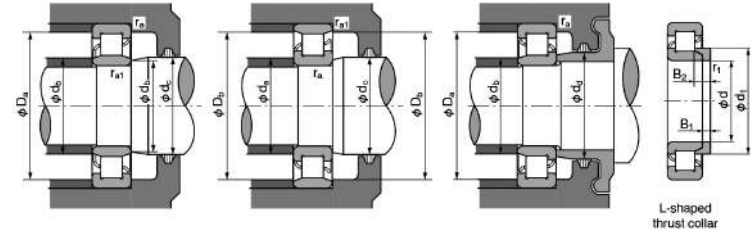
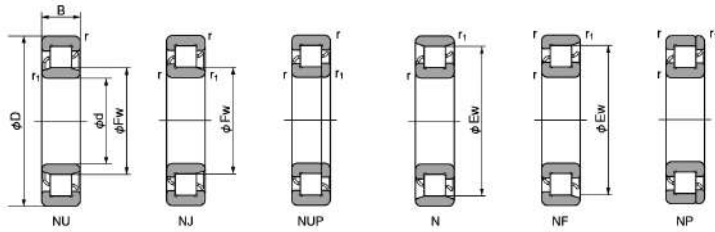
Boundary Dimensions								Basic Load Rating		Limiting Speed		Bearing Designation						Mass	
(mm)								(KN)		(rpm)		NU	NJ	NUP	N	NF	NP	(kg)	
d	D	B	E _w	F _w	r (min)	r ₁ (min)	Cr	Cor	Grease	Oil	NU	NJ	NUP	N	NF	NP	NU	N	
65	120	23	105.6	79.6	1.5	1.5	84.00	94.50	5300	6300	NU213	NJ	NUP	N	NF	NP	1.06	1.04	
65	120	23	-	78.5	1.5	1.5	108.00	119.00	4800	5600	NU213E	NJ	NUP	-	-	-	1.18	-	
65	120	31	-	79.6	1.5	1.5	120.00	149.00	4800	6000	NU2213	NJ	NUP	-	-	-	1.43	-	
65	120	31	-	78.5	1.5	1.5	149.00	181.00	4800	6000	NU2213E	NJ	NUP	-	-	-	1.65	-	
65	140	33	121.5	83.5	2.1	2.1	135.00	139.00	4500	5300	NU313	NJ	NUP	N	NF	NP	2.27	2.22	
65	140	33	-	82.5	2.1	2.1	181.00	191.00	4000	4800	NU313E	NJ	NUP	-	-	-	2.55	-	
65	140	48	-	83.5	2.1	2.1	188.00	212.00	4000	4800	NU2313	NJ	NUP	-	-	-	3.25	-	
65	140	48	-	82.5	2.1	2.1	247.00	287.00	3800	4800	NU2313E	NJ	NUP	-	-	-	3.56	-	
65	160	37	135.3	89.3	2.1	2.1	195.00	203.00	4000	4800	NU413	NJ	NUP	N	NF	NP	3.68	3.58	
70	110	20	100	80	1.1	1	58.50	70.50	6000	7100	NU1014	-	-	N	-	-	0.712	0.702	
70	125	24	110.5	84.5	1.5	1.5	83.50	95.00	5000	6300	NU214	NJ	NUP	N	NF	NP	1.16	1.14	
70	125	24	-	83.5	1.5	1.5	119.00	137.00	4600	5600	NU214E	NJ	NUP	-	-	-	1.26	-	
70	125	31	-	84.5	1.5	1.5	119.00	151.00	4800	5600	NU2214	NJ	NUP	-	-	-	1.52	-	
70	125	31	-	83.5	1.5	1.5	156.00	194.00	4600	5600	NU2214E	NJ	NUP	-	-	-	1.68	-	
70	150	35	130	90	2.1	2.1	158.00	220.00	4000	5000	NU314	NJ	NUP	N	NF	NP	2.73	2.68	
70	150	35	-	89	2.1	2.1	205.00	222.00	3600	4300	NU314E	NJ	NUP	-	-	-	3.15	-	
70	150	51	-	90	2.1	2.1	223.00	262.00	3800	4500	NU2314	NJ	NUP	-	-	-	3.97	-	
70	150	51	-	89	2.1	2.1	274.00	325.00	3600	4500	NU2314E	NJ	NUP	-	-	-	4.30	-	
70	180	42	152	100	3	3	228.00	236.00	3600	4300	NU414	NJ	NUP	N	NF	NP	5.40	5.26	
75	115	20	105	85	1.1	1	60.00	74.50	5600	6700	NU1015	-	-	N	-	-	0.745	0.735	
75	130	25	116.5	88.5	1.5	1.5	96.50	111.00	4800	6000	NU215	NJ	NUP	N	NF	NP	1.24	1.22	
75	130	25	-	88.5	1.5	1.5	130.00	156.00	4300	5300	NU215E	NJ	NUP	-	-	-	1.38	-	
75	130	31	-	88.5	1.5	1.5	130.00	162.00	4500	5300	NU2215	NJ	NUP	-	-	-	1.57	-	
75	130	31	-	88.5	1.5	1.5	162.00	207.00	4300	5300	NU2215E	NJ	NUP	-	-	-	1.80	-	
75	160	37	139.5	95.5	2.1	2.1	190.00	205.00	3800	4800	NU315	NJ	NUP	N	NF	NP	3.21	3.15	
75	160	37	-	95	2.1	2.1	240.00	263.00	3400	4000	NU315E	NJ	NUP	-	-	-	3.70	-	
75	160	55	-	95.5	2.1	2.1	258.00	300.00	3400	4300	NU2315	NJ	NUP	-	-	-	4.84	-	
75	160	55	-	95	2.1	2.1	330.00	395.00	3400	4300	NU2315E	NJ	NUP	-	-	-	5.30	-	
75	190	45	160.5	104.5	3	3	262.00	274.00	3400	4000	NU415	NJ	NUP	N	NF	NP	6.40	6.25	
80	125	22	113.5	91.5	1.1	1	72.50	90.50	5300	6300	NU1016	-	-	N	-	-	1.03	0.994	

Abutment and Fillet Dimensions (mm)											Dimensions of L-Shaped Thrust Collar (mm)					
d _a	d _b	d _c	d _d	D _a	D _b	r _a	r _{a1}	Bearing Designation			d	d ₁	B ₁	B ₂	r ₁	Mass Approx (Kg)
(min)	(min)	(max)	(min)	(min)	(max)	(min)	(max)	(min)	(max)	(max)	(min)	(max)			(min)	
73.5	73.5	77	81	87	111.5	111.5	108	1.5	1.5	HJ213	65	84.8	6	11	1.5	0.127
-	73.5	77	81	87	111.5	-	-	1.5	1.5	HJ213 E	65	84.5	6	10	1.5	0.123
-	73.5	77	81	87	111.5	-	-	1.5	1.5	HJ2213	65	84.8	6	11.5	1.5	0.130
-	73.5	77	81	87	111.5	-	-	1.5	1.5	HJ2213 E	65	84.5	6	10.5	1.5	0.126
77	77	81	85	93	128	128	125	2	2	HJ313	65	91	10	17	2.1	0.286
-	77	81	85	93	128	-	-	2	2	HJ313 E	65	90.6	10	15.5	2.1	0.274
-	77	81	85	93	128	-	-	2	2	HJ2313	65	91	10	20	2.1	0.309
-	77	81	85	93	128	-	-	2	2	HJ2313 E	65	90.6	10	18	2.1	0.309
77	77	88	91	100	148	148	137	2	2	HJ413	65	98.5	11	18	2.1	0.417
76.5	76	78	82	-	103	105	100.5	1	1	-	-	-	-	-	-	-
78.5	78.5	82	86	92	116.5	116.5	114	1.5	1.5	HJ214	70	89.6	7	12.5	1.5	0.154
-	78.5	82	86	92	116.5	-	-	1.5	1.5	HJ214 E	70	89.5	7	11	1.5	0.149
-	78.5	82	86	92	116.5	-	-	1.5	1.5	HJ2214	70	89.6	7	12.5	1.5	0.154
-	78.5	82	86	92	116.5	-	-	1.5	1.5	HJ2214 E	70	89.5	7	11.5	1.5	0.152
82	82	87	92	100	138	138	134	2	2	HJ314	70	98	10	17.5	2.1	0.336
-	82	87	92	100	138	-	-	2	2	HJ314 E	70	97.5	10	15.5	2.1	0.315
-	82	87	92	100	138	-	-	2	2	HJ2314	70	98	10	20.5	2.1	0.362
-	82	87	92	100	138	-	-	2	2	HJ2314 E	70	97.5	10	18.5	2.1	0.343
84	84	99	102	112	166	166	153	2.5	2.5	HJ414	70	110.5	12	20	3	0.607
81.5	81	83	87	-	108	110	105.5	1	1	-	-	-	-	-	-	-
83.5	83.5	87	90	96	121.5	121.5	120	1.5	1.5	HJ215	75	94	7	12.5	1.5	0.161
-	83.5	87	90	96	121.5	-	-	1.5	1.5	HJ215 E	75	94.5	7	11	1.5	0.159
-	83.5	87	90	96	121.5	-	-	1.5	1.5	HJ2215	75	94	7	12.5	1.5	0.161
-	83.5	87	90	96	121.5	-	-	1.5	1.5	HJ2215 E	75	94.5	7	11.5	1.5	0.162
87	87	93	97	106	148	148	143	2	2	HJ315	75	104.2	11	18.5	2.1	0.406
-	87	93	97	106	148	-	-	2	2	HJ315 E	75	104.2	11	16.5	2.1	0.389
-	87	93	97	106	148	-	-	2	2	HJ2315	75	104.2	11	21.5	2.1	0.437
-	87	93	97	106	148	-	-	2	2	HJ2315 E	75	104.2	11	19.5	2.1	0.421
89	89	103	107	118	176	176	162	2.5	2.5	HJ415	75	116	13	21.5	3	0.710
86.5	86	90	94	-	118	120	113.5	1	1	-	-	-	-	-	-	-

Single Row Cylindrical Roller Bearings (Cage Type)



Single Row Cylindrical Roller Bearings (Cage Type)



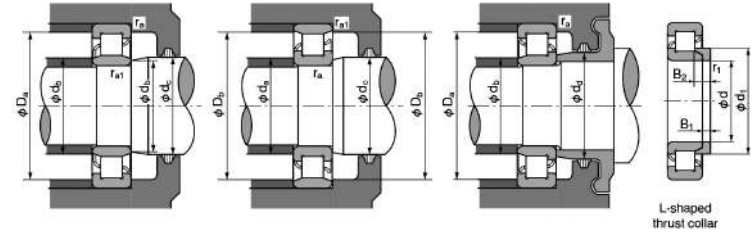
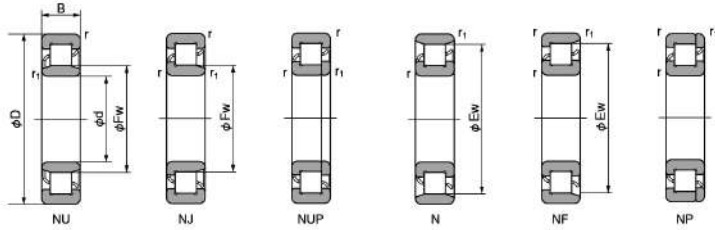
Boundary Dimensions						Basic Load Rating		Limiting Speed		Bearing Designation						Mass		
(mm)						(KN)		(rpm)		NU	NJ	NUP	N	NF	NP	(kg)		
d	D	B	E _w	F _w	r (min)	r ₁ (min)	Cr	Cor	Grease	Oil						NU	N	
80	140	26	125.3	95.3	2	2	106.00	122.00	4500	5300	NU216	NJ	NUP	N	NF	NP	1.53	1.50
80	140	26	-	95.3	2	2	139.00	167.00	4000	4800	NU216E	NJ	NUP	-	-	-	1.66	-
80	140	33	-	95.3	2	2	147.00	186.00	4000	5000	NU2216	NJ	NUP	-	-	-	1.96	-
80	140	33	-	95.3	2	2	186.00	243.00	4000	5000	NU2216E	NJ	NUP	-	-	-	2.15	-
80	170	39	147	103	2.1	2.1	190.00	207.00	3600	4300	NU316	NJ	NUP	N	NF	NP	3.93	3.83
80	170	39	-	101	2.1	2.1	256.00	282.00	3200	3800	NU316E	NJ	NUP	-	-	-	4.38	-
80	170	58	-	103	2.1	2.1	274.00	330.00	3200	4000	NU2316	NJ	NUP	-	-	-	5.83	-
80	170	58	-	101	2.1	2.1	355.00	430.00	3200	4000	NU2316E	NJ	NUP	-	-	-	6.35	-
80	200	48	170	110	3	3	299.00	315.00	3200	3800	NU416	NJ	NUP	N	NF	NP	7.45	7.28
85	130	22	118.5	96.5	1.1	1	74.50	95.50	5000	6000	NU1017	-	-	N	-	-	1.06	1.04
85	150	28	133.8	101.8	2	2	140.00	140.00	4300	5000	NU217	NJ	NUP	N	NF	NP	1.92	1.87
85	150	28	-	100.5	2	2	167.00	199.00	3800	4500	NU217E	NJ	NUP	-	-	-	2.10	-
85	150	36	-	101.8	2	2	170.00	218.00	3800	4500	NU2217	NJ	NUP	-	-	-	2.50	-
85	150	36	-	100.5	2	2	217.00	279.00	3800	4500	NU2217E	NJ	NUP	-	-	-	2.75	-
85	180	41	156	108	3	3	224.00	247.00	3400	4000	NU317	NJ	NUP	N	NF	NP	4.54	4.44
85	180	41	-	108	3	3	291.00	330.00	3000	3600	NU317E	NJ	NUP	-	-	-	5.12	-
85	180	60	-	108	3	3	315.00	380.00	3000	3800	NU2317	NJ	NUP	-	-	-	6.62	-
85	180	60	-	108	3	3	390.00	485.00	3000	3600	NU2317E	NJ	NUP	-	-	-	7.35	-
85	210	52	177	113	4	4	330.00	350.00	3000	3800	NU417	NJ	NUP	N	NF	NP	9.10	8.68
90	140	24	127	103	1.5	1.1	88.00	114.00	4800	5600	NU1018	-	-	N	-	-	1.36	1.34
90	160	30	143	107	2	2	152.00	178.00	4000	4800	NU218	NJ	NUP	N	NF	NP	2.30	2.25
90	160	30	-	107	2	2	182.00	217.00	3600	4300	NU218E	NJ	NUP	-	-	-	2.53	-
90	160	40	-	107	2	2	207.00	265.00	3600	4300	NU2218	NJ	NUP	-	-	-	3.10	-
90	160	40	-	107	2	2	242.00	315.00	3600	4300	NU2218E	NJ	NUP	-	-	-	3.48	-
90	190	43	165	115	3	3	240.00	265.00	3200	3800	NU318	NJ	NUP	N	NF	NP	5.37	5.25
90	190	43	-	113.5	3	3	335.00	380.00	2800	3400	NU318E	NJ	NUP	-	-	-	5.92	-
90	190	64	-	115	3	3	325.00	395.00	2800	3600	NU2318	NJ	NUP	-	-	-	7.90	-
90	190	64	-	113.5	3	3	435.00	535.00	2800	3400	NU2318E	NJ	NUP	-	-	-	8.72	-
90	225	54	191.5	123.5	4	4	375.00	400.00	2800	3400	NU418	NJ	NUP	N	NF	NP	10.6	10.3
95	145	24	132	108	1.5	1.1	90.50	120.00	4500	5300	NU1019	-	-	N	-	-	1.42	1.40

Abutment and Fillet Dimensions (mm)										Dimensions of L-Shaped Thrust Collar (mm)						
d _a	d _b	d _c	d _d	D _a	D _b	r _a	r _{a1}			Bearing Designation	d	d ₁	B ₁	B ₂	r ₁	Mass Approx (Kg)
(min)	(min)	(max)	(min)	(min)	(max)	(min)	(max)	(max)	(max)			(max)			(min)	
90	90	94	97	104	130	130	128	2	2	HJ216	80	101.2	8	13.5	2	0.214
-	90	94	97	104	130	-	-	2	2	HJ216 E	80	101.6	8	12.5	2	0.213
-	90	94	97	104	130	-	-	2	2	HJ2216	80	101.2	8	13.5	2	0.214
-	90	94	97	104	130	-	-	2	2	HJ2216 E	80	101.6	8	12.5	2	0.213
92	92	99	105	114	158	158	151	2	2	HJ316	80	111.8	11	19.5	2.1	0.479
-	92	99	105	114	158	-	-	2	2	HJ316 E	80	110.6	11	17	2.1	0.440
-	92	99	105	114	158	-	-	2	2	HJ2316	80	111.8	11	23	2.1	0.517
-	92	99	105	114	158	-	-	2	2	HJ2316 E	80	110.6	11	20	2.1	0.475
94	94	109	112	124	186	186	172	2.5	2.5	HJ416	80	122	13	22	3	0.779
91.5	91	95	99	-	123	125	118.5	1	1	-	-	-	-	-	-	-
95	95	99	104	110	140	140	137	2	2	HJ217	85	108.2	8	14	2	0.253
-	95	99	104	110	140	-	-	2	2	HJ217 E	85	107.6	8	12.5	2	0.239
-	95	99	104	110	140	-	-	2	2	HJ2217	85	108.2	8	14	2	0.253
-	95	99	104	110	140	-	-	2	2	HJ2217 E	85	107.6	8	13	2	0.243
99	99	106	110	119	166	166	160	2.5	2.5	HJ317	85	117.5	12	20.5	3	0.560
-	99	106	110	119	166	-	-	2.5	2.5	HJ317 E	85	117.9	12	18.5	3	0.545
-	99	106	110	119	166	-	-	2.5	2.5	HJ2317	85	117.5	12	24	3	0.603
-	99	106	110	119	166	-	-	2.5	2.5	HJ2317 E	85	117.9	12	22	3	0.590
103	103	111	115	128	192	192	179	3	3	HJ417	85	126	14	24	4	0.876
98	97	101	106	-	131.5	133.5	127.5	1.5	1	-	-	-	-	-	5	-
100	100	105	109	116	150	150	146	2	2	HJ218	90	114.2	9	15	2	0.311
-	100	105	109	116	150	-	-	2	2	HJ218 E	90	114.4	9	14	2	0.306
-	100	105	109	116	150	-	-	2	2	HJ2218	90	114.2	9	16	2	0.320
-	100	105	109	116	150	-	-	2	2	HJ2218 E	90	114.4	9	15	2	0.315
104	104	111	117	127	176	176	169	2.5	2.5	HJ318	90	125	12	21	3	0.644
-	104	111	117	127	176	-	-	2.5	2.5	HJ318 E	90	124.2	12	18.5	3	0.601
-	104	111	117	127	176	-	-	2.5	2.5	HJ2318	90	125	12	26	3	0.713
-	104	111	117	127	176	-	-	2.5	2.5	HJ2318 E	90	124.2	12	22	3	0.653
108	108	122	125	139	207	207	194	3	3	HJ418	90	137	14	24	4	1.06
103	102	106	111	-	136.5	138.5	132.5	1.5	1	-	-	-	-	-	-	-

Single Row Cylindrical Roller Bearings (Cage Type)



Single Row Cylindrical Roller Bearings (Cage Type)



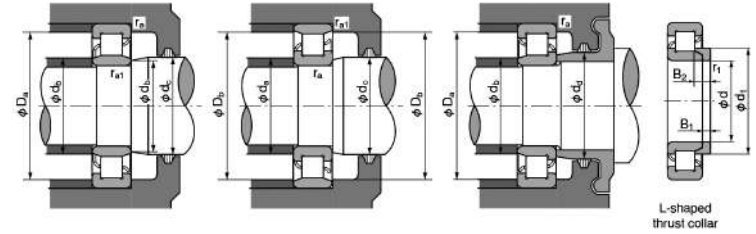
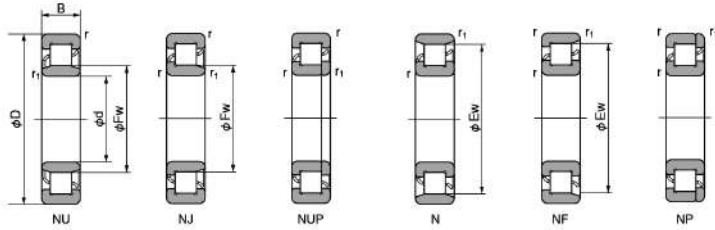
Boundary Dimensions								Basic Load Rating		Limiting Speed		Bearing Designation						Mass	
(mm)								(KN)		(rpm)		NU	NJ	NUP	N	NF	NP	NU	N
d	D	B	E _w	F _w	r (min)	r ₁ (min)	Cr	Cor	Grease	Oil									
95	170	32	151.5	113.5	2.1	2.1	165.00	195.00	3800	4500	NU219	NJ	NUP	N	NF	NP	2.81	2.75	
95	170	32	-	112.5	2.1	2.1	222.00	259.00	3400	4000	NU219E	NJ	NUP	-	-	-	3.08	-	
95	170	43	-	113.5	2.1	2.1	230.00	298.00	3400	4000	NU2219	NJ	NUP	-	-	-	3.85	-	
95	170	43	-	112.5	2.1	2.1	286.00	370.00	3400	4000	NU2219E	NJ	NUP	-	-	-	4.23	-	
95	200	45	173.5	121.5	3	3	259.00	289.00	3000	3600	NU319	NJ	NUP	N	NF	NP	6.23	6.13	
95	200	45	-	121.5	3	3	335.00	385.00	2600	3200	NU319E	NJ	NUP	-	-	-	6.92	-	
95	200	67	-	121.5	3	3	370.00	460.00	2600	3400	NU2319	NJ	NUP	-	-	-	9.39	-	
95	200	67	-	121.5	3	3	460.00	585.00	2600	3200	NU2319E	NJ	NUP	-	-	-	10.3	-	
95	240	55	201.5	133.5	4	4	400.00	445.00	2600	3200	NU419	NJ	NUP	N	NF	NP	14.0	13.6	
100	150	24	137	113	1.5	1.1	93.00	126.00	4300	5300	NU1020	-	-	N	-	-	1.48	1.46	
100	180	34	160	120	2.1	2.1	183.00	217.00	3600	4300	NU220	NJ	NUP	N	NF	NP	3.30	3.23	
100	180	34	-	119	2.1	2.1	250.00	305.00	3200	3800	NU220E	NJ	NUP	-	-	-	3.73	-	
100	180	46	-	120	2.1	2.1	257.00	335.00	3200	3800	NU2220	NJ	NUP	-	-	-	4.67	-	
100	180	46	-	119	2.1	2.1	335.00	445.00	3200	3800	NU2220E	NJ	NUP	-	-	-	5.13	-	
100	215	47	185.5	129.5	3	3	300.00	335.00	2800	3400	NU320	NJ	NUP	N	NF	NP	7.70	7.53	
100	215	47	-	127.5	3	3	380.00	425.00	2400	3000	NU320E	NJ	NUP	-	-	-	8.45	-	
100	215	73	-	129.5	3	3	435.00	545.00	2400	3200	NU2320	NJ	NUP	-	-	-	11.9	-	
100	215	73	-	127.5	3	3	570.00	715.00	2400	3000	NU2320E	NJ	NUP	-	-	-	12.9	-	
100	250	58	211	139	4	4	450.00	500.00	2600	3000	NU420	NJ	NUP	N	NF	NP	14.4	14.0	
105	160	26	145.5	119.5	2	1.1	109.00	149.00	4000	4800	NU1021	-	-	N	-	-	1.88	1.85	
105	190	36	168.8	126.8	2.1	2.1	202.00	241.00	3400	4000	NU221	NJ	NUP	N	NF	NP	4.03	3.95	
105	225	49	195	135	3	3	340.00	385.00	2600	3200	NU321	NJ	NUP	N	NF	NP	8.73	8.51	
105	260	60	220.5	144.5	4	4	495.00	555.00	2400	3000	NU421	NJ	NUP	N	NF	NP	19.5	19.1	
110	170	28	155	125	2	1.1	131.00	174.00	3800	4500	NU1022	-	-	N	-	-	2.34	2.31	
110	200	38	178.5	132.5	2.1	2.1	240.00	290.00	3200	3800	NU222	NJ	NUP	N	NF	NP	4.64	4.58	
110	200	38	-	132.5	2.1	2.1	293.00	365.00	2800	3400	NU222E	NJ	NUP	-	-	-	5.17	-	
110	200	53	-	132.5	2.1	2.1	320.00	440.00	2800	3400	NU2222	NJ	NUP	-	-	-	6.93	-	
110	200	53	-	132.5	2.1	2.1	385.00	515.00	2800	3400	NU2222E	NJ	NUP	-	-	-	7.32	-	
110	240	50	207	143	3	3	380.00	435.00	2600	3000	NU322	NJ	NUP	N	NF	NP	10.4	10.2	
110	240	50	-	143	3	3	450.00	525.00	2200	2800	NU322E	NJ	NUP	-	-	-	11.1	-	

Abutment and Fillet Dimensions (mm)											Dimensions of L-Shaped Thrust Collar (mm)						
d _a	d _b	d _c	d _d	D _a	D _b	r _a	r _{a1}				Bearing Designation	d	d ₁	B ₁	B ₂	r ₁	Mass Approx (Kg)
(min)	(min)	(max)	(min)	(min)	(max)	(min)	(max)	(min)	(max)	(max)		(max)	(max)			(min)	
107	107	111	116	123	158	158	155	2	2		HJ219	95	121	9	15.5	2.1	0.357
-	107	111	116	123	158	-	-	2	2		HJ219 E	95	120.6	9	14	2.1	0.340
-	107	111	116	123	158	-	-	2	2		HJ2219	95	121	9	16.5	2.1	0.367
-	107	111	116	123	158	-	-	2	2		HJ2219 E	95	120.6	9	15.5	2.1	0.357
109	109	119	124	134	186	186	178	2.5	2.5		HJ319	95	132	13	22.5	3	0.774
-	109	119	124	134	186	-	-	2.5	2.5		HJ319 E	95	132.2	13	20.5	3	0.750
-	109	119	124	134	186	-	-	2.5	2.5		HJ2319	95	132	13	26.5	3	0.836
-	109	119	124	134	186	-	-	2.5	2.5		HJ2319 E	95	132.2	13	20.5	3	0.750
113	113	132	136	149	222	222	204	3	3		HJ419	95	147	15	25.5	4	1.32
108	107	111	116	-	141.5	143.5	137.5	1.5	1		-	-	-	-	-	-	-
112	112	117	122	130	168	168	164	2	2		HJ220	100	128	10	17	2.1	0.448
-	112	117	122	130	168	-	-	2	2		HJ220 E	100	127.5	10	15	2.1	0.421
-	112	117	122	130	168	-	-	2	2		HJ2220	100	128	10	18	2.1	0.459
-	112	117	122	130	168	-	-	2	2		HJ2220 E	100	127.5	10	16	2.1	0.433
114	114	125	132	143	201	201	190	2.5	2.5		HJ320	100	140.5	13	22.5	3	0.892
-	114	125	132	143	201	-	-	2.5	2.5		HJ320 E	100	139.6	13	20.5	3	0.850
-	114	125	132	143	201	-	-	2.5	2.5		HJ2320	100	140.5	13	27.5	3	0.977
-	114	125	132	143	201	-	-	2.5	2.5		HJ2320 E	100	139.6	13	23.5	3	0.906
118	118	137	141	156	232	232	213	3	3		HJ420	100	153.5	16	27	4	1.52
114	112	118	122	-	150	153.5	146.5	2	1		-	-	-	-	-	-	-
117	117	124	129	137	178	178	173	2	2		HJ221	105	135	10	17.5	2.1	0.507
119	119	132	137	149	211	211	199	2.5	2.5		HJ321	105	147	13	22.5	3	0.977
123	123	143	147	162	242	242	223	3	3		HJ421	105	159.5	16	27	4	1.62
119	117	124	128	-	160	163.5	156	2	1		-	-	-	-	-	-	-
122	122	130	135	144	188	188	182	2	2		HJ222	110	141.5	11	18.5	2.1	0.608
-	122	130	135	144	188	-	-	2	2		HJ222 E	110	141.7	11	17	2.1	0.593
-	122	130	135	144	188	-	-	2	2		HJ2222	110	141.5	11	20.5	2.1	0.600
-	122	130	135	144	188	-	-	2	2		HJ2222 E	110	141.7	11	19.5	2.1	0.629
124	124	140	145	158	226	226	211	2.5	2.5		HJ322	110	155.5	14	23	3	1.17
-	124	140	145	158	226	-	-	2.5	2.5		HJ322 E	110	155.8	14	22	3	1.16

Single Row Cylindrical Roller Bearings (Cage Type)



Single Row Cylindrical Roller Bearings (Cage Type)



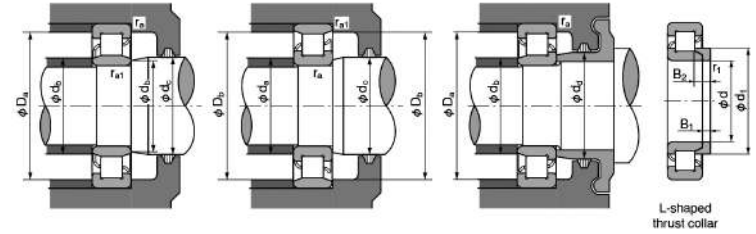
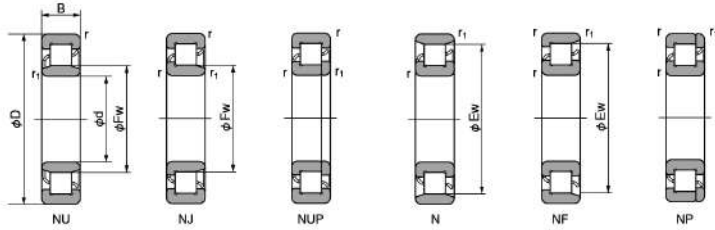
Boundary Dimensions								Basic Load Rating		Limiting Speed		Bearing Designation						Mass	
(mm)								(KN)		(rpm)		NU	NJ	NUP	N	NF	NP	NU	N
d	D	B	E _w	F _w	r (min)	r ¹ (min)	Cr	Cor	Grease	Oil									
110	240	80	-	143	3	3	570.00	735.00	2200	2800	NU2322	NJ	NUP	-	-	-	18.8	-	
110	240	80	-	143	3	3	670.00	880.00	2200	2800	NU2322E	NJ	NUP	-	-	-	18.5	-	
110	280	65	235	155	4	4	550.00	620.00	2200	2800	NU422	NJ	NUP	N	NF	NP	20.5	19.9	
120	180	28	165	135	2	1.1	139.00	191.00	3400	4300	NU1024	-	-	N	-	-	2.51	2.47	
120	215	40	191.5	143.5	2.1	2.1	260.00	320.00	3000	3400	NU224	NJ	NUP	N	NF	NP	5.61	5.50	
120	215	40	-	143.5	2.1	2.1	335.00	420.00	2600	3200	NU224E	NJ	NUP	-	-	-	6.25	-	
120	215	58	-	143.5	2.1	2.1	365.00	490.00	2600	3200	NU224	NJ	NUP	-	-	-	8.56	-	
120	215	58	-	143.5	2.1	2.1	450.00	620.00	2600	3200	NU224E	NJ	NUP	-	-	-	9.35	-	
120	260	55	226	154	3	3	450.00	510.00	2200	2800	NU324	NJ	NUP	N	NF	NP	15.4	15.1	
120	260	55	-	154	3	3	530.00	610.00	2000	2600	NU324E	NJ	NUP	-	-	-	15.2	-	
120	260	86	-	154	3	3	710.00	920.00	2000	2600	NU2324	NJ	NUP	-	-	-	23.1	-	
120	260	86	-	154	3	3	795.00	1030.00	2000	2600	NU2324E	NJ	NUP	-	-	-	22.9	-	
120	310	72	260	170	5	5	675.00	770.00	2000	2400	NU424	NJ	NUP	N	NF	NP	28.7	28.0	
130	200	33	182	148	2	1.1	172.00	238.00	3200	3800	NU1026	-	-	N	-	-	3.83	3.77	
130	230	40	204	156	3	3	270.00	340.00	2600	3200	NU226	NJ	NUP	N	NF	NP	7.60	7.39	
130	230	40	-	153.5	3	3	365.00	455.00	2400	2800	NU226E	NJ	NUP	-	-	-	7.50	-	
130	230	64	-	156	3	3	380.00	530.00	2400	3000	NU2226	NJ	NUP	-	-	-	11.2	-	
130	230	64	-	153.5	3	3	530.00	735.00	2400	3000	NU2226E	NJ	NUP	-	-	-	12.5	-	
130	280	58	243	167	4	4	555.00	665.00	2200	2600	NU326	NJ	NUP	N	NF	NP	18.2	17.8	
130	280	58	-	167	4	4	615.00	735.00	1900	2400	NU326E	NJ	NUP	-	-	-	18.5	-	
130	280	93	-	167	4	4	840.00	1130.00	1900	2400	NU2326	NJ	NUP	-	-	-	29.1	-	
130	280	93	-	167	4	4	920.00	1230.00	1900	2400	NU2326E	NJ	NUP	-	-	-	28.5	-	
130	340	78	285	185	5	5	825.00	955.00	1800	2200	NU426	NJ	NUP	N	NF	NP	36.9	36.1	
140	210	33	192	158	2	1.1	176.00	250.00	3000	3600	NU1028	-	-	N	-	-	4.07	4.00	
140	250	42	221	169	3	3	310.00	420.00	2400	3000	NU228	NJ	NUP	N	NF	NP	9.49	9.26	
140	250	42	-	169	3	3	395.00	515.00	2200	2600	NU228E	NJ	NUP	-	-	-	8.90	-	
140	250	68	-	169	3	3	465.00	670.00	2200	2800	NU2228	NJ	NUP	-	-	-	14.3	-	
140	250	68	-	169	3	3	570.00	835.00	2200	2600	NU2228E	NJ	NUP	-	-	-	14.9	-	
140	300	62	260	180	4	4	595.00	745.00	2000	2400	NU328	NJ	NUP	N	NF	NP	22.4	21.8	
140	300	62	-	180	4	4	665.00	795.00	1800	2200	NU328E	NJ	NUP	-	-	-	21.8	-	

Abutment and Fillet Dimensions (mm)											Dimensions of L-Shaped Thrust Collar (mm)						
d _a	d _b	d _c	d _d	D _a	D _b	r _a	r _{a1}				Bearing Designation	d	d ₁	B ₁	B ₂	r ₁	Mass Approx (Kg)
(min)	(min)	(max)	(min)	(min)	(max)	(min)	(max)	(min)	(max)	(max)		(max)	(max)			(min)	
-	124	140	145	158	226	-	-	2.5	2.5		HJ2322	110	155.5	14	28	3	1.27
-	124	140	145	158	226	-	-	2.5	2.5		HJ2322 E	110	155.8	14	26.5	3	1.26
128	128	153	157	173	262	262	237	3	3		HJ422	110	171	17	29.5	4	2.05
129	127	134	138	-	170	173.5	166	2	1		-	-	-	-	-	-	-
132	132	141	146	156	203	203	196	2	2		HJ224	120	153	11	19	2.1	0.700
-	132	141	146	156	203	-	-	2	2		HJ224 E	120	153.4	11	17	2.1	0.680
-	132	141	146	156	203	-	-	2	2		HJ2224	120	153	11	22	2.1	0.749
-	132	141	146	156	203	-	-	2	2		HJ2224 E	120	153.4	11	20	2.1	0.731
134	134	151	156	171	246	246	230	2.5	2.5		HJ324	120	168.5	14	23.5	3	1.38
-	134	151	156	171	246	-	-	2.5	2.5		HJ324 E	120	168.6	14	22.5	3	1.36
-	134	151	156	171	246	-	-	2.5	2.5		HJ2324	120	168.5	14	28	3	1.51
-	134	151	156	171	246	-	-	2.5	2.5		HJ2324 E	120	168.6	14	26	3	1.46
142	142	168	172	190	288	288	262	4	4		HJ424	120	188	17	30.5	5	2.55
139	137	146	151	-	190	193.5	183	2	1		-	-	-	-	-	-	-
144	144	151	158	168	216	216	208	2.5	2.5		HJ226	130	165.5	11	19	3	0.805
-	144	151	158	168	216	-	-	2.5	2.5		HJ226 E	130	164.2	11	17	3	0.775
-	144	151	158	168	216	-	-	2.5	2.5		HJ2226	130	165.5	11	25	3	0.911
-	144	151	158	168	216	-	-	2.5	2.5		HJ2226 E	130	164.2	11	21	3	0.833
148	148	164	169	184	262	262	247	3	3		HJ326	130	182	14	24	4	1.61
-	148	164	169	184	262	-	-	3	3		HJ326 E	130	182.3	14	23	4	1.59
-	148	164	169	184	262	-	-	3	3		HJ2326	130	182	14	29.5	4	1.78
-	148	164	169	184	262	-	-	3	3		HJ2326 E	130	182.3	14	28	4	1.75
152	152	183	187	208	318	318	287	4	4		HJ426	130	205	18	32	5	3.23
149	147	156	161	-	200	203.5	193	2	1		-	-	-	-	-	-	-
154	154	166	171	182	236	236	228	2.5	2.5		HJ228	140	179.5	11	19	3	0.968
-	154	166	171	182	236	-	-	2.5	2.5		HJ228 E	140	180	11	18	3	0.966
-	154	166	171	182	236	-	-	2.5	2.5		HJ2228	140	179.5	11	25	3	1.09
-	154	166	171	182	236	-	-	2.5	2.5		HJ2228 E	140	180	11	23	3	1.08
158	158	176	182	198	282	282	268	3	3		HJ328	140	196	15	26	4	2.01
-	158	176	182	198	282	-	-	3	3		HJ328 E	140	196	15	25	4	1.97

Single Row Cylindrical Roller Bearings (Cage Type)



Single Row Cylindrical Roller Bearings (Cage Type)



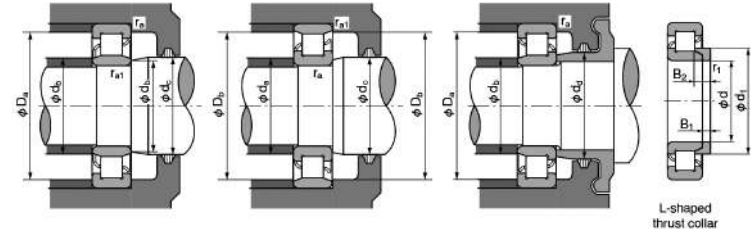
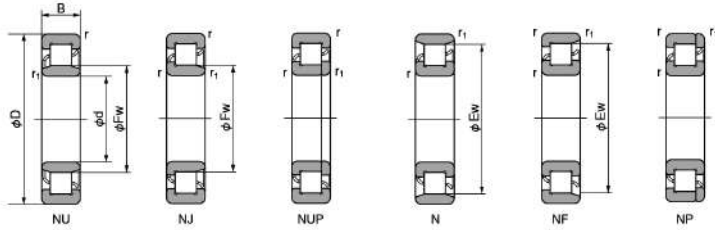
Boundary Dimensions								Basic Load Rating		Limiting Speed		Bearing Designation						Mass	
(mm)								(KN)		(rpm)		NU	NJ	NUP	N	NF	NP	NU	N
d	D	B	E _w	F _w	r (min)	r ₁ (min)	Cr	Cor	Grease	Oil									
140	300	102	-	180	4	4	920.00	1250.00	1800	2200	NU2328	NJ	NUP	-	-	-	36.8	-	
140	300	102	-	180	4	4	1020.00	1380.00	1800	2200	NU2328E	NJ	NUP	-	-	-	35.9	-	
140	360	82	302	198	5	5	875.00	1020.00	1700	2000	NU428	NJ	NUP	N	NF	NP	48.0	46.8	
150	225	35	205.5	169.5	2.1	1.5	202.00	294.00	2800	3400	NU1030	-	-	N	-	-	4.90	4.83	
150	270	45	238	182	3	3	375.00	490.00	2200	2800	NU230	NJ	NUP	N	NF	NP	11.9	11.7	
150	270	45	-	182	3	3	450.00	595.00	2000	2400	NU230E	NJ	NUP	-	-	-	11.5	-	
150	270	73	-	182	3	3	545.00	800.00	2000	2600	NU2230	NJ	NUP	-	-	-	18.7	-	
150	270	73	-	182	3	3	660.00	990.00	2000	2400	NU2230E	NJ	NUP	-	-	-	18.5	-	
150	320	65	277	193	4	4	660.00	805.00	1800	2200	NU330	NJ	NUP	N	NF	NP	26.5	25.9	
150	320	65	-	193	4	4	755.00	920.00	1600	2000	NU330E	NJ	NUP	-	-	-	28.8	-	
150	320	108	-	193	4	4	1020.00	1400.00	1700	2000	NU2330	NJ	NUP	-	-	-	44.7	-	
150	320	108	-	193	4	4	1160.00	1600.00	1600	2000	NU2330E	NJ	NUP	-	-	-	48.2	-	
150	380	85	317	213	5	5	930.00	1120.00	1600	2000	NU430	NJ	NUP	N	NF	NP	54.5	53.3	
160	240	38	220	180	2.1	1.5	238.00	340.00	2600	3200	NU1032	-	-	N	-	-	6.01	5.93	
160	290	48	255	195	3	3	430.00	570.00	2200	2600	NU232	NJ	NUP	N	NF	NP	14.5	14.2	
160	290	48	-	195	3	3	500.00	665.00	1900	2200	NU232E	NJ	NUP	-	-	-	15.6	-	
160	290	80	-	195	3	3	630.00	940.00	1900	2400	NU2232	NJ	NUP	-	-	-	24.1	-	
160	290	80	-	193	3	3	810.00	1190.00	1900	2400	NU2232E	NJ	NUP	-	-	-	25.9	-	
160	340	68	292	208	4	4	700.00	875.00	1700	2000	NU332	NJ	NUP	N	NF	NP	31.2	30.6	
160	340	68	-	204	4	4	860.00	1050.00	1700	2000	NU332E	NJ	NUP	-	-	-	34.1	-	
160	340	114	-	208	4	4	1070.00	1520.00	1500	1900	NU2332	NJ	NUP	-	-	-	52.5	-	
160	340	114	-	204	4	4	1310.00	1820.00	1600	1900	NU2332E	NJ	NUP	-	-	-	57.2	-	
170	260	42	237	193	2.1	2.1	287.00	415.00	2400	2800	NU1034	-	-	N	-	-	8.02	7.90	
170	310	52	272	208	4	4	475.00	635.00	2000	2400	NU234	NJ	NUP	N	NF	NP	17.9	17.6	
170	310	52	-	207	4	4	605.00	800.00	1900	2300	NU234E	NJ	NUP	-	-	-	19.3	-	
170	310	86	-	208	4	4	725.00	1100.00	1800	2200	NU2234	NJ	NUP	-	-	-	29.6	-	
170	310	86	-	205	4	4	970.00	1400.00	1900	2300	NU2234E	NJ	NUP	-	-	-	31.9	-	
170	360	72	310	220	4	4	795.00	1010.00	1600	2000	NU334	NJ	NUP	N	NF	NP	37.1	36.1	
170	360	120	-	220	4	4	1220.00	1750.00	1400	1800	NU2334	NJ	NUP	-	-	-	62.7	-	
180	280	46	255	205	2.1	2.1	355.00	510.00	2200	2600	NU1036	-	-	N	-	-	10.8	10.5	

Abutment and Fillet Dimensions (mm)											Dimensions of L-Shaped Thrust Collar (mm)						
d _a	d _b	d _c	d _d	D _a	D _b	r _a	r _{a1}				Bearing Designation	d	d ₁	B ₁	B ₂	r ₁	Mass Approx (Kg)
(min)	(min)	(max)	(min)	(min)	(max)	(min)	(max)	(min)	(max)	(max)		(max)	(max)			(min)	
-	158	176	182	198	282	-	-	3	3		HJ2328	140	196	15	33.5	4	2.27
-	158	176	182	198	282	-	-	3	3		HJ2328 E	140	196	15	31	4	2.18
162	162	195	200	222	338	338	304	4	4		HJ428	140	219	18	33	5	3.70
161	158.5	167	173	-	213	217	207	2	1.5		-	-	-	-	-	-	-
164	164	179	184	196	256	256	245	2.5	2.5		HJ230	150	193	12	20.5	3	1.22
-	164	179	184	196	256	-	-	2.5	2.5		HJ230 E	150	193.7	12	19.5	3	1.23
-	164	179	184	196	256	-	-	2.5	2.5		HJ2230	150	193	12	26.5	3	1.36
-	164	179	184	196	256	-	-	2.5	2.5		HJ2230 E	150	193.7	12	24.5	3	1.35
168	168	190	195	213	302	302	287	3	3		HJ330	150	210	15	26.5	4	2.32
-	168	190	195	213	302	-	-	3	3		HJ330 E	150	210	15	25	4	2.26
-	168	190	195	213	302	-	-	3	3		HJ2330	150	210	15	34	4	2.62
-	168	190	195	213	302	-	-	3	3		HJ2330 E	150	210	15	31.5	4	2.52
172	172	210	216	237	358	358	319	4	4		HJ430	150	234	20	36.5	5	4.61
171	168.5	178	184	-	228	232	220	2	1.5		-	-	-	-	-	-	-
174	174	192	197	210	276	276	262	2.5	2.5		HJ232	160	207	12	21	3	1.44
-	174	192	197	210	276	-	-	2.5	2.5		HJ232 E	160	207.3	12	20	3	1.43
-	174	192	197	210	276	-	-	2.5	2.5		HJ2232	160	205	12	28	3	1.50
-	174	192	197	210	276	-	-	2.5	2.5		HJ2232 E	160	206.1	12	24.5	3	1.54
178	178	200	211	228	322	322	304	3	3		HJ332	160	225	15	28	4	2.71
-	178	200	211	228	322	-	-	3	3		HJ332 E	160	222.1	15	25	4	2.49
-	178	200	211	228	322	-	-	3	3		HJ2332	160	225	15	37	4	3.09
-	178	200	211	228	322	-	-	3	3		HJ2332 E	160	222.1	15	32	4	2.80
181	182	190	197	-	248	249	237	2	2		-	-	-	-	-	-	-
188	188	204	211	223	292	292	284	3	3		HJ234	170	220.5	12	22	4	1.67
-	188	204	211	223	292	-	-	3	3		HJ234 E	170	220.8	12	20	4	1.64
-	188	204	211	223	292	-	-	3	3		HJ2234	170	219	12	29	4	1.78
-	188	204	211	223	292	-	-	3	3		HJ2234 E	170	219.5	12	24	4	1.76
188	188	216	223	241	342	342	314	3	3		HJ334	170	238	16	29.5	4	3.20
-	188	216	223	241	342	-	-	3	3		HJ2334	170	238	16	38.5	4	3.62
191	192	203	209	-	268	269	256	2	2		-	-	-	-	-	-	-

Single Row Cylindrical Roller Bearings (Cage Type)



Single Row Cylindrical Roller Bearings (Cage Type)



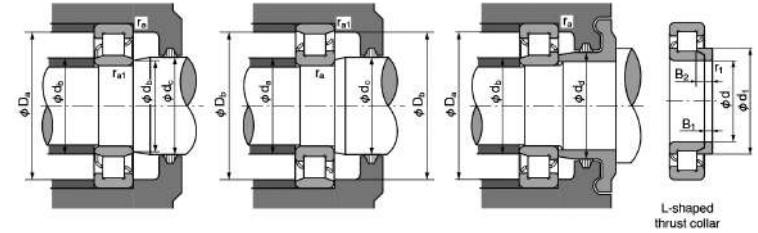
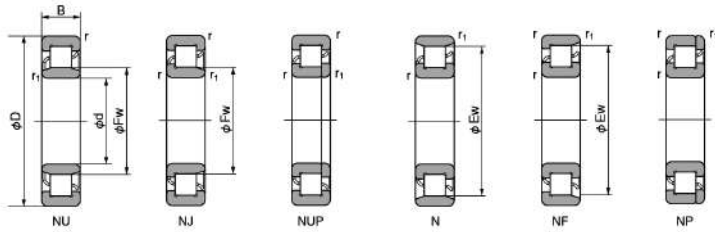
Boundary Dimensions					Basic Load Rating		Limiting Speed		Bearing Designation						Mass			
(mm)					(KN)		(rpm)		NU	NJ	NUP	N	NF	NP	NU	N		
d	D	B	E _w	F _w	r (min)	r ₁ (min)	Cr	Cor	Grease	Oil								
180	320	52	282	218	4	4	495.00	675.00	1900	2200	NU236	NJ	NUP	N	NF	NP	19.3	18.3
180	320	52	-	217	4	4	625.00	850.00	1800	2200	NU236E	NJ	NUP	-	-	-	20.5	-
180	320	86	-	218	4	4	775.00	1210.00	1700	2000	NU2236	NJ	NUP	-	-	-	30.4	-
180	320	86	-	215	4	4	1010.00	1510.00	1800	2200	NU2236E	NJ	NUP	-	-	-	34.5	-
180	380	75	328	232	4	4	9050.00	11500.00	1500	1800	NU336	NJ	NUP	N	NF	NP	42.8	41.9
180	380	126	-	232	4	4	1380.00	1990.00	1300	1700	NU2336	NJ	NUP	-	-	-	73.1	-
190	290	46	265	215	2.1	2.1	365.00	535.00	2000	2600	NU1038	-	-	N	-	-	11.2	10.9
190	340	55	299	231	4	4	555.00	770.00	1800	2200	NU238	NJ	NUP	N	NF	NP	22.6	22.1
190	340	55	-	230	4	4	695.00	955.00	1700	2000	NU238E	NJ	NUP	-	-	-	26.0	-
190	340	92	-	231	4	4	830.00	1290.00	1600	2000	NU2238	NJ	NUP	-	-	-	37.5	-
190	340	92	-	228	4	4	1100.00	1670.00	1700	2000	NU2238E	NJ	NUP	-	-	-	45.2	-
190	400	78	345	245	5	5	975.00	1260.00	1400	1700	NU338	NJ	NUP	N	NF	NP	49.4	48.3
190	400	132	-	245	5	5	1520.00	2220.00	1300	1600	NU2338	NJ	NUP	-	-	-	85.0	-
200	310	51	281	229	2.1	2.1	390.00	580.00	2000	2400	NU1040	-	-	N	-	-	14.4	14.1
200	360	58	316	244	4	4	620.00	865.00	1500	1800	NU240	NJ	NUP	N	NF	NP	26.8	26.2
200	360	58	-	243	4	4	765.00	1060.00	1600	1900	NU240E	NJ	NUP	-	-	-	29.5	-
200	360	98	-	244	4	4	925.00	1440.00	1500	1800	NU2240	NJ	NUP	-	-	-	45.4	-
200	360	98	-	241	4	4	1220.00	1870.00	1500	1800	NU2240E	NJ	NUP	-	-	-	52.3	-
200	420	80	360	260	5	5	975.00	1270.00	1300	1600	NU340	NJ	NUP	N	NF	NP	55.8	54.5
200	420	138	-	260	5	5	1510.00	2240.00	1200	1500	NU2340	NJ	NUP	-	-	-	96.8	-
220	340	56	310	250	3	3	500.00	750.00	1800	2300	NU1044	-	-	N	-	-	18.8	18.5
220	400	65	350	270	4	4	760.00	1080.00	1500	1800	NU244	NJ	NUP	N	NF	NP	37.8	37.0
220	400	108	-	270	4	4	1140.00	1810.00	1400	1700	NU2244	NJ	NUP	-	-	-	61.8	-
220	460	88	396	284	5	5	1200.00	1570.00	1200	1500	NU344	NJ	NUP	N	NF	NP	73.6	71.7
240	360	56	330	270	3	3	530.00	820.00	1700	2100	NU1048	-	-	N	-	-	20.4	20.1
240	440	72	385	295	4	4	935.00	1340.00	1400	1600	NU248	NJ	NUP	N	NF	NP	51.1	50.0
240	440	120	-	295	4	4	1440.00	2320.00	1300	1600	NU2248	NJ	NUP	-	-	-	83.5	-
240	500	95	430	310	5	5	1430.00	1950.00	1100	1300	NU348	NJ	NUP	N	NF	NP	93.0	90.9
260	400	65	364	296	4	4	645.00	1000.00	1600	1800	NU1052	-	-	N	-	-	29.6	29.2
260	480	80	420	320	5	5	1140.00	1660.00	1300	1500	NU252	NJ	NUP	N	NF	NP	69.0	66.7

Abutment and Fillet Dimensions (mm)										Dimensions of L-Shaped Thrust Collar (mm)						
d _a	d _b	d _c	d _d	D _a	D _b	r _a	r _{a1}			Bearing Designation	d	d ₁	B ₁	B ₂	r ₁	Mass Approx (Kg)
(min)	(min)	(max)	(min)	(min)	(max)	(min)	(max)	(min)	(max)			(max)			(min)	
198	198	214	221	233	302	302	294	3	3	HJ236	180	230.5	12	22	4	1.76
-	198	214	221	233	302	-	-	3	3	HJ236 E	180	230.8	12	20	4	1.73
-	198	214	221	233	302	-	-	3	3	HJ2236	180	229	12	29	4	1.87
-	198	214	221	233	302	-	-	3	3	HJ2236 E	180	229.5	12	24	4	1.85
198	198	227	235	255	362	362	332	3	3	HJ336	180	252	17	30.5	4	3.80
-	198	227	235	255	362	-	-	3	3	HJ2336	180	252	17	40	4	4.35
201	202	213	219	-	278	279	266	2	2	-	-	-	-	-	-	-
208	208	227	234	247	322	322	311	3	3	HJ238	190	244.5	13	23.5	4	2.16
-	208	227	234	247	322	-	-	3	3	HJ238 E	190	244.5	13	21.5	4	2.11
-	208	227	234	247	322	-	-	3	3	HJ2238	190	243	13	31.5	4	2.32
-	208	227	234	247	322	-	-	3	3	HJ2238 E	190	243.2	13	26.5	4	2.28
212	212	240	248	268	378	378	349	4	4	HJ338	190	265	18	32	5	4.36
-	212	240	248	268	378	-	-	4	4	HJ2338	190	265	18	41.5	5	4.92
211	212	226	233	-	298	299	283	2	2	-	-	-	-	-	-	-
218	218	240	247	261	342	342	328	3	3	HJ240	200	258	14	25	4	2.59
-	218	240	247	261	342	-	-	3	3	HJ240 E	200	258.2	14	23	4	2.54
-	218	240	247	261	342	-	-	3	3	HJ2240	200	258	14	34	4	2.95
-	218	240	247	261	342	-	-	3	3	HJ2240 E	200	256.9	14	28	4	2.73
222	222	254	263	283	398	398	364	4	4	HJ340	200	280	18	33	5	4.91
-	222	254	263	283	398	-	-	4	4	HJ2340	200	280	18	44.5	5	5.63
233	234	248	254	-	326	327	311	2.5	2.5	-	-	-	-	-	-	-
238	238	266	273	289	382	382	362	3	3	HJ244	220	286	15	27.5	4	3.53
-	238	266	273	289	382	-	-	3	3	HJ2244	220	286	15	36.5	4	3.99
242	242	279	287	307	438	438	400	4	4	HJ344	220	307	20	36	5	6.53
253	254	268	275	-	346	347	331	2.5	2.5	-	-	-	-	-	-	-
258	258	293	298	316	422	422	397	3	3	HJ248	240	313	16	29.5	4	4.57
-	258	293	298	316	422	-	-	3	3	HJ2248	240	313	16	38.5	4	5.14
262	262	305	313	333	478	478	434	4	4	HJ348	240	335	22	39.5	5	8.55
278	278	292	300	-	382	382	365	3	3	-	-	-	-	-	-	-
282	282	318	323	343	458	458	432	4	4	HJ252	260	340	18	33	5	6.12

Single Row Cylindrical Roller Bearings (Cage Type)



Single Row Cylindrical Roller Bearings (Cage Type)



L-shaped thrust collar

Boundary Dimensions						Basic Load Rating		Limiting Speed		Bearing Designation						Mass		
(mm)						(KN)		(rpm)		NU	NJ	NUP	N	NF	NP	(kg)		
d	D	B	E _w	F _w	r (min)	r ₁ (min)	Cr	Cor	Grease	Oil	NU	NJ	NUP	N	NF	NP	NU	N
260	480	130	-	320	5	5	1780.00	2930.00	1100	1300	NU2252	NJ	NUP	-	-	-	106	-
260	540	102	464	336	6	6	1620.00	2230.00	1000	1200	NU352	NJ	NUP	N	NF	NP	117	114
280	420	65	384	316	4	4	660.00	1050.00	1500	1700	NU1056	-	-	N	-	-	33.0	32.5
280	500	80	440	340	5	5	1140.00	1680.00	1200	1400	NU256	NJ	NUP	N	NF	NP	71.5	70.0
300	460	74	420	340	4	4	885.00	1400.00	1400	1500	NU1060	-	-	N	-	-	44.7	44.1
300	540	85	476	364	5	5	1400.00	2070.00	1100	1300	NU260	NJ	NUP	N	NF	NP	88.9	87.0
320	480	74	440	360	4	4	905.00	1470.00	1300	1400	NU1064	-	-	N	-	-	49.3	48.4
320	580	92	510	390	5	5	1600.00	2390.00	1000	1200	NU264	NJ	NUP	N	NF	NP	113	111
340	520	82	475	385	5	5	1080.00	1740.00	1200	1300	NU1068	-	-	N	-	-	65.9	64.8
360	540	82	495	405	5	5	1110.00	1830.00	1100	1300	NU1072	-	-	N	-	-	68.8	67.7
380	560	82	515	425	5	5	1140.00	1910.00	1000	1200	NU1076	-	-	N	-	-	72.3	71.1
400	600	90	550	450	5	5	1360.00	2280.00	950	1100	NU1080	-	-	N	-	-	92.5	92.4
420	620	90	570	470	5	5	1390.00	2380.00	900	1100	NU1084	-	-	N	-	-	97.6	95.8
440	650	94	597	493	6	6	1530.00	2530.00	850	1050	NU1088	-	-	N	-	-	112	110
460	680	100	624	516	6	6	1630.00	2740.00	800	1000	NU1092	-	-	N	-	-	130	128
480	700	100	644	536	6	6	1620.00	2860.00	780	950	NU1096	-	-	N	-	-	135	132
500	720	100	664	556	6	6	1700.00	2970.00	750	900	NU10/500	-	-	N	-	-	140	137

Abutment and Fillet Dimensions (mm)										Dimensions of L-Shaped Thrust Collar (mm)						
d _a	d _b	d _c	d _d	D _a	D _b	r _a	r _{a1}	Bearing Designation		d	d ₁	B ₁	B ₂	r ₁	Mass Approx (Kg)	
(min)	(min)	(max)	(min)	(min)	(max)	(min)	(max)			(max)	(max)			(min)		
-	282	318	323	343	458	458	-	4	4	HJ2252	260	340	18	40.5	5	6.69
288	288	331	339	359	512	512	468	5	5	HJ352	260	362	24	43	6	8.77
298	298	313	320	-	402	402	385	3	3	-	-	-	-	-	-	-
302	302	336	343	365	478	478	452	4	4	HJ256	280	360	18	33	5	6.52
318	318	337	344	-	442	442	421	3	3	-	-	-	-	-	-	-
322	322	361	368	392	518	518	487	4	4	HJ260	300	387	20	34.5	5	8.33
338	338	356	365	-	462	462	441	3	3	-	-	-	-	-	-	-
342	342	386	393	419	558	558	522	4	4	HJ264	320	415	21	37	5	10.3
362	362	381	390	-	498	498	476	4	4	-	-	-	-	-	-	-
382	382	401	410	-	518	518	496	4	4	-	-	-	-	-	-	-
402	402	421	430	-	538	538	516	4	4	-	-	-	-	-	-	-
422	422	446	455	-	578	578	551	4	4	-	-	-	-	-	-	-
442	442	466	475	-	598	598	571	4	4	-	-	-	-	-	-	-
468	468	489	498	-	622	622	598	5	5	-	-	-	-	-	-	-
488	488	512	520	-	652	652	625	5	5	-	-	-	-	-	-	-
508	508	532	541	-	672	672	645	5	5	-	-	-	-	-	-	-
528	528	552	561	-	692	692	665	5	5	-	-	-	-	-	-	-