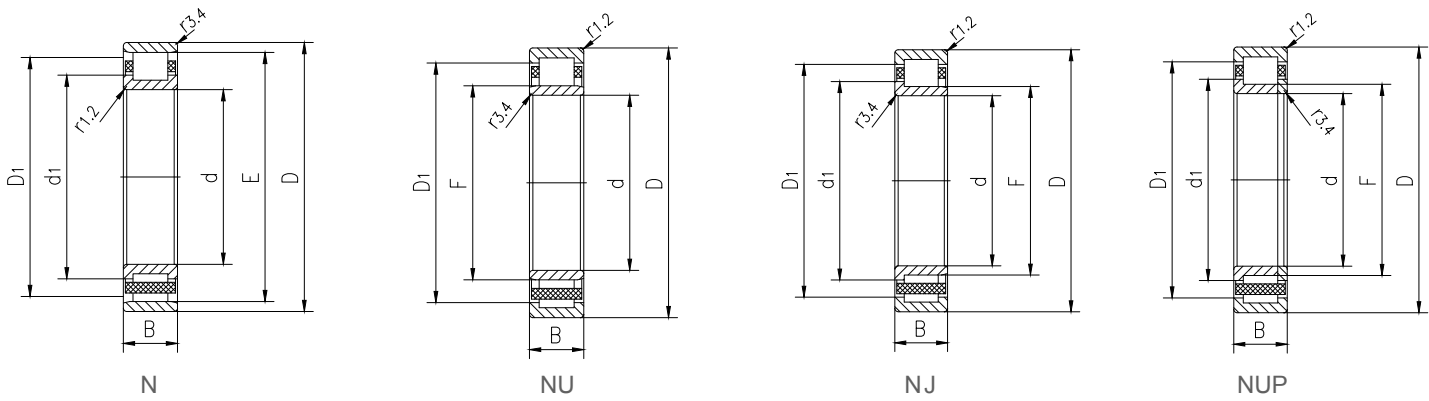


Suffixes of available designs

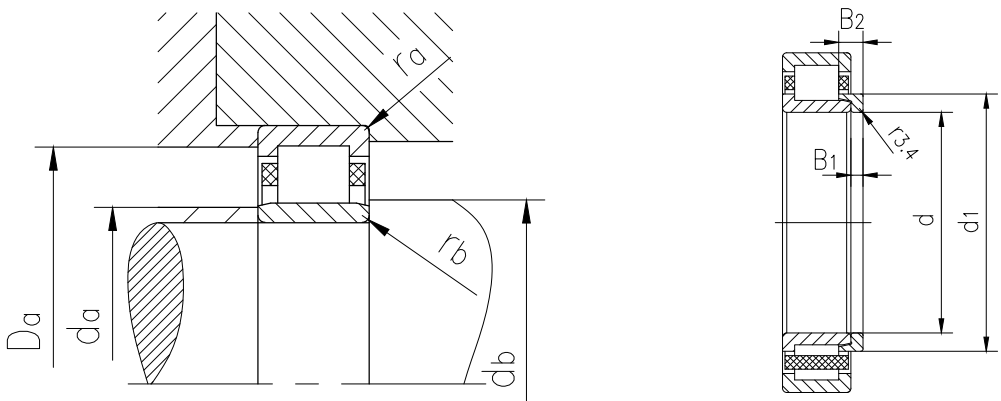
Suffix	Meaning
A	Deviating or modified internal design
CV	Modified internal design, full complement roller set
EC	Optimized internal design incorporating more and/or larger rollers and with modified roller end / large contact
ADB	Modified internal design and seal (for NNF 50 series)
B	Improved seal and grease
DA	Modified internal design and seal (for 3194** series)
K	Tapered bore, taper 1:12
N	Snap ring groove in the outer ring
NR	Snap ring groove in the outer ring, with associated snap ring
N1	One locating slot (notch) in one outer ring side face
N2	Two locating slots (notches) in one outer ring side face, 180° apart
-2LS	Contact seal, PUR, on both sides
FR	Pin-type steel cage, pierced rollers
J	Stamped steel cage, roller centred
JA	Sheet steel cage, outer ring centred
JB	Sheet steel cage, inner ring centred
L	Machined light alloy cage, roller centred
LA	Machined light alloy cage, outer ring centred
LB	Machined light alloy cage, inner ring centred
LL	Machined light alloy cage, window-type, inner or outer ring centred (depending on bearing design)
M	Machined brass cage, roller centred
MA(S)	Machined brass cage, outer ring centred. The S indicates a lubrication groove in the guiding surface.
MB	Machined brass cage, inner ring centred
MH	Machined brass cage, inner ring raceway centred
ML	Machined brass cage, window-type, inner or outer ring centred (depending on bearing design)
MP	Machined brass cage, window-type, inner or outer ring centred (depending on bearing size)
MR	Machined brass cage, window-type, roller centred
P	Glass fibre reinforced PA66 cage, roller centred
PA	Glass fibre reinforced PA66 cage, outer ring centred
PH	Glass fibre reinforced PEEK cage, roller centred

Suffix	Meaning
PHA	Glass fibre reinforced PEEK cage, outer ring centred
V	Full complement of rollers (no cage)
VH	Full complement of rollers (no cage), self-retaining
HA1	Case-hardened inner and outer rings
HA2	Case-hardened outer ring
HA3	Case-hardened inner ring
HB1	Bainite-hardened inner and outer rings
HB3	Bainite-hardened inner ring
HN1	Inner and outer rings with special surface heat treatment
L4B	Bearing rings and rollers black oxidized
L5B	Rollers black oxidized
L7B	Inner ring and rollers black oxidized
CN	Normal radial internal clearance; only used together with an additional letter that identifies a
C2	Radial internal clearance smaller than Normal
C3	Radial internal clearance greater than Normal
C4	Radial internal clearance greater than C3
C5	Radial internal clearance greater than C4
DR	Set of two matched bearings
TR	Set of three matched bearings
QR	Set of four matched bearings
S1	Bearing rings heat stabilized for operating temperatures ≤ 200 °C (390 °F)
S2	Bearing rings heat stabilized for operating temperatures ≤ 250 °C (480 °F)
W33	Annular groove and three lubrication holes in the outer ring
PEX	KMR Explorer bearing, used only when same-sized conventional and KMR Explorer bearings are available
VA301	Bearing for railway vehicle traction motors
VA305	VA301 + special inspection routines
VA350	Bearing for railway axleboxes
VA380	Bearing for railway axleboxes in accordance with EN 12080, class 1
VA3091	VA301 + external surfaces of the outer ring are coated with aluminium oxide
VC025	Bearing with special wear-resistant raceways for applications in heavily contaminated environments
VE901	Modified internal design
VQ015	Inner ring with crowned raceway for increased permissible misalignment

Single row cylindrical roller bearings

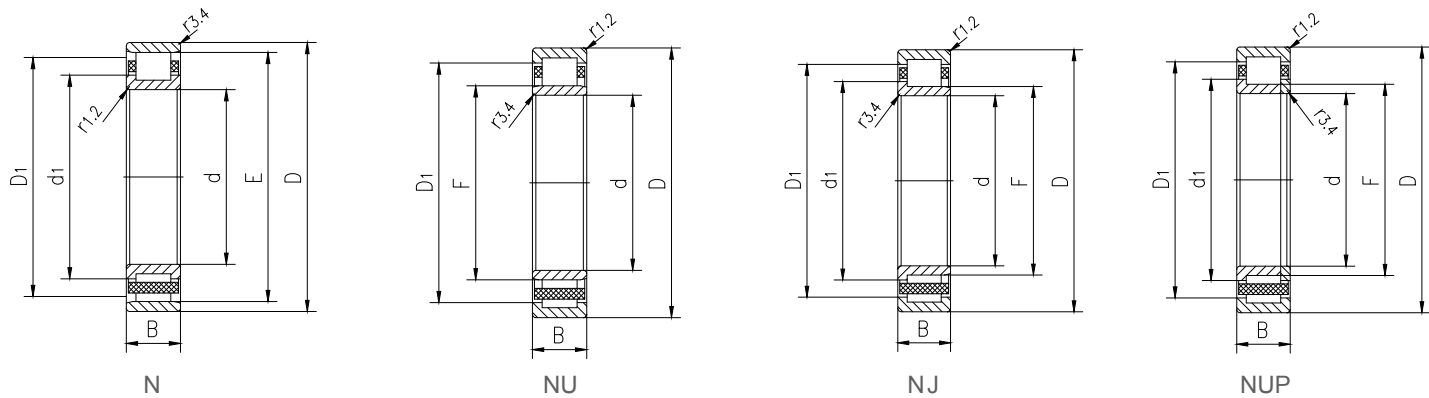


Type			Main dimensions			Dimensions								Shoulder and chamfer dimensions					
Bearings with standard cage	Optional Standard Cage	Corner ring	d	D	B	d _i	D _i	F, E	r _{1.2} min.	r _{3.4} min.	s max.	B ₁	B ₂	d _a min.	d _a max.	d _b , D _a min.	D _a max.	r _a max.	r _b max.
-			mm			mm								mm					
NJ2216ECP	J,M,ML,PH	HJ 216 EC	80	140	33	101	121.7	95.3	2	2	1.4	8	13	90	93	104	129.8	2	—
NU316ECP	J,M,ML,PH	HJ 316 EC	80	170	39	—	142.7	101	2.1	2.1	2.1	11	17	92	98	104	157.8	2	2
N316ECP	M	—	80	170	39	110	—	151	2.1	2.1	2.1	—	—	92	148	154	157	2	2
NJ316ECP	J,M,ML,PH	HJ 316 EC	80	170	39	110	142.7	101	2.1	2.1	2.1	11	17	92	98	113	157.8	2	—
NUP316ECP	J,M,ML,PH	—	80	170	39	110	142.7	101	2.1	2.1	—	—	—	92	—	113	157.8	2	—
NU2316ECP	M,ML	HJ 2316 EC	80	170	58	—	142.7	101	2.1	2.1	5.1	11	20	92	98	104	157.8	2	2
NJ2316ECP	M,ML	HJ 2316 EC	80	170	58	110	142.7	101	2.1	2.1	5.1	11	20	92	98	113	157.8	2	—
NUP2316ECP	M,ML	—	80	170	58	110	142.7	101	2.1	2.1	—	—	—	92	—	113	157.8	2	—
NU416	—	HJ 416	80	200	48	—	158.1	110	3	3	3.7	13	22	96	107	112	184	2.5	2.5
NJ416	—	HJ 416	80	200	48	122	158.1	110	3	3	3.7	13	22	96	107	125	184	2.5	—
NU1017ML	—	—	85	130	22	—	114	96.5	1.1	1	3.3	—	—	91	94	99	123	1	1
NJ1017ML	—	—	85	130	22	101	114	96.5	1.1	1	3.3	—	—	91	94	104	123	1	—
NUP1017ML	—	—	85	130	22	101	114	96.5	1.1	1	—	—	—	91	—	104	123	1	—
N217ECP	M	—	85	150	28	107	—	136.5	2	2	1.5	—	—	96	134	139	140	2	2
NJ217ECP	J,M,ML	HJ 217 EC	85	150	28	107	130.3	100.5	2	2	1.5	8	13	96	98	110	138.5	2	—
NU217ECP	J,M,ML	HJ 217 EC	85	150	28	—	130.3	100.5	2	2	1.5	8	13	96	98	103	138.5	2	2
NUP217ECP	J,M,ML	—	85	150	28	107	130.3	100.5	2	2	—	—	—	96	—	110	138.5	2	—
NU2217ECP	J,M,ML,PH	—	85	150	36	—	130.3	100.5	2	2	2	—	—	96	98	103	138.5	2	2
NJ2217ECP	J,M,ML,PH	—	85	150	36	107	130.3	100.5	2	2	2	—	—	96	98	110	138.5	2	—
NUP2217ECP	J,M,ML,PH	—	85	150	36	107	130.3	100.5	2	2	—	—	—	96	—	110	138.5	2	—
N317ECP	M	—	85	180	41	117	—	160	3	3	2.3	—	—	99	157	163	166	2.5	2.5
NU317ECP	J,M,ML,PH	HJ 317 EC	85	180	41	—	151.4	108	3	3	2.3	12	19	99	105	111	165.5	2.5	2.5
NJ317ECP	J,M,ML,PH	HJ 317 EC	85	180	41	117	151.4	108	3	3	2.3	12	19	99	105	120	165.5	2.5	—
NUP317ECP	J,M,ML,PH	—	85	180	41	117	151.4	108	3	3	—	—	—	99	—	120	165.5	2.5	—
NU2317ECP	J,M,ML	HJ 2317 EC	85	180	60	—	151.4	108	3	3	5.8	12	22	99	105	111	165.5	2.5	2.5
NJ2317ECP	J,M,ML	HJ 2317 EC	85	180	60	117	151.4	108	3	3	5.8	12	22	99	105	120	165.5	2.5	—
NUP2317ECP	J,M,ML	—	85	180	60	117	151.4	108	3	3	—	—	—	99	—	120	165.5	2.5	—
NU1018ML	M	—	90	140	24	—	122.1	103	1.5	1.1	3.5	—	—	96	101	106	133	1.5	1
NJ1018ML	M	—	90	140	24	108	122.1	103	1.5	1.1	3.5	—	—	96	101	111	133	1.5	—
N218ECP	M	—	90	160	30	114	—	145	2	2	1.8	—	—	101	142	148	149	2	2
NJ218ECP	J,M,ML	HJ 218 EC	90	160	30	114	138.45	107	2	2	1.8	9	14	101	104	117	149	2	—
NU218ECP	J,M,ML	HJ 218 EC	90	160	30	—	138.45	107	2	2	1.8	9	14	101	104	110	149	2	2
NUP218ECP	J,M,ML	—	90	160	30	114	138.45	107	2	2	—	—	—	101	—	117	149	2	—
NU2218ECP	J,M,ML	HJ 2218 EC	90	160	40	—	138.5	107	2	2	2.6	9	15	101	104	110	149	2	2
NJ2218ECP	J,M,ML	HJ 2218 EC	90	160	40	114	138.5	107	2	2	2.6	9	15	101	104	117	149	2	—
NUP2218ECP	J,M,ML	—	90	160	40	114	138.5	107	2	2	—	—	—	101	—	117	149	2	—
NU318ECP	J,M,ML	HJ 318 EC	90	190	43	—	160.3	113.5	3	3	2.5	12	19	104	110	116	175.3	2.5	2.5

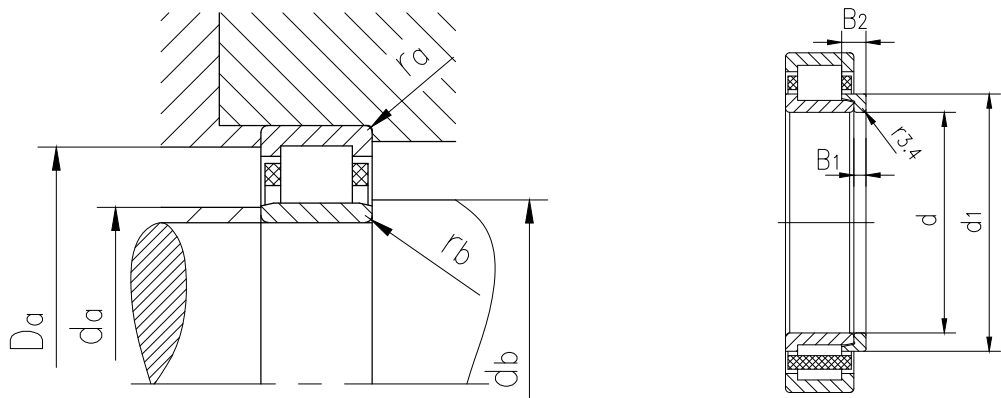


Type			Weight	Weight of corner ring	Basic load rating		Fatigue load limit	Rated speed reference speed	Maximum speed	Calculate the coefficient
Bearings with standard cage	Optional Standard Cage	Corner ring			Dynamic C	Static C ₀	P _u			k _r
-			kg	kg	kN			r/min		-
NJ2216ECP	J,M,ML,PH	HJ 216 EC	2.05	0.21	222.6	257.25	32.55	5565	5880	0.2
NU316ECP	J,M,ML,PH	HJ 316 EC	3.85	0.44	315	304.5	37.8	4515	5250	0.15
N316ECP	M	—	3.9	—	315	304.5	37.8	4515	5250	0.12
NJ316ECP	J,M,ML,PH	HJ 316 EC	4	0.44	315	304.5	37.8	4515	5250	0.15
NUP316ECP	J,M,ML,PH	—	4.1	—	315	304.5	37.8	4515	5250	0.15
NU2316ECP	M,ML	HJ 2316 EC	5.75	0.48	435.75	462	57.75	4515	5250	0.25
NJ2316ECP	M,ML	HJ 2316 EC	5.95	0.48	435.75	462	57.75	4515	5250	0.25
NUP2316ECP	M,ML	—	6	—	435.75	462	57.75	4515	5250	0.25
NU416	—	HJ 416	7.25	0.8	318.15	336	40.95	3990	4725	0.15
NJ416	—	HJ 416	7.55	0.8	318.15	336	40.95	3990	4725	0.15
NU1017ML	—	—	1.05	—	71.61	90.825	11.34	6300	9450	0.15
NJ1017ML	—	—	1.1	—	71.61	90.825	11.34	6300	9450	0.15
NUP1017ML	—	—	1.1	—	71.61	90.825	11.34	6300	9450	0.15
N217ECP	M	—	1.9	—	199.5	210	26.25	5040	5565	0.12
NJ217ECP	J,M,ML	HJ 217 EC	1.9	0.24	199.5	210	26.25	5040	5565	0.15
NU217ECP	J,M,ML	HJ 217 EC	1.9	0.24	199.5	210	26.25	5040	5565	0.15
NUP217ECP	J,M,ML	—	1.9	—	199.5	210	26.25	5040	5565	0.15
NU2217ECP	J,M,ML,PH	—	2.5	—	262.5	294	36.225	5040	5565	0.2
NJ2217ECP	J,M,ML,PH	—	2.55	—	262.5	294	36.225	5040	5565	0.2
NUP2217ECP	J,M,ML,PH	—	2.6	—	262.5	294	36.225	5040	5565	0.2
N317ECP	M	—	4.55	—	357	351.75	43.575	4200	5040	0.12
NU317ECP	J,M,ML,PH	HJ 317 EC	4.65	0.55	357	351.75	43.575	4200	5040	0.15
NJ317ECP	J,M,ML,PH	HJ 317 EC	4.8	0.55	357	351.75	43.575	4200	5040	0.15
NUP317ECP	J,M,ML,PH	—	4.9	—	357	351.75	43.575	4200	5040	0.15
NU2317ECP	J,M,ML	HJ 2317 EC	6.85	0.59	477.75	514.5	63	4200	5040	0.25
NJ2317ECP	J,M,ML	HJ 2317 EC	7	0.59	477.75	514.5	63	4200	5040	0.25
NUP2317ECP	J,M,ML	—	7	—	477.75	514.5	63	4200	5040	0.25
NU1018ML	M	—	1.35	—	84.945	109.2	13.335	5880	8925	0.15
NJ1018ML	M	—	1.4	—	84.945	109.2	13.335	5880	8925	0.15
N218ECP	M	—	2.3	—	218.4	231	28.35	4725	5250	0.12
NJ218ECP	J,M,ML	HJ 218 EC	2.3	0.31	218.4	231	28.35	4725	5250	0.15
NU218ECP	J,M,ML	HJ 218 EC	2.3	0.31	218.4	231	28.35	4725	5250	0.15
NUP218ECP	J,M,ML	—	2.45	—	218.4	231	28.35	4725	5250	0.15
NU2218ECP	J,M,ML	HJ 2218 EC	3.15	0.31	294	330.75	40.95	4725	5250	0.2
NJ2218ECP	J,M,ML	HJ 2218 EC	3.25	0.31	294	330.75	40.95	4725	5250	0.2
NUP2218ECP	J,M,ML	—	3.3	—	294	330.75	40.95	4725	5250	0.2
NU318ECP	J,M,ML	HJ 318 EC	5.25	0.62	383.25	378	45.15	3990	4725	0.15

Single row cylindrical roller bearings

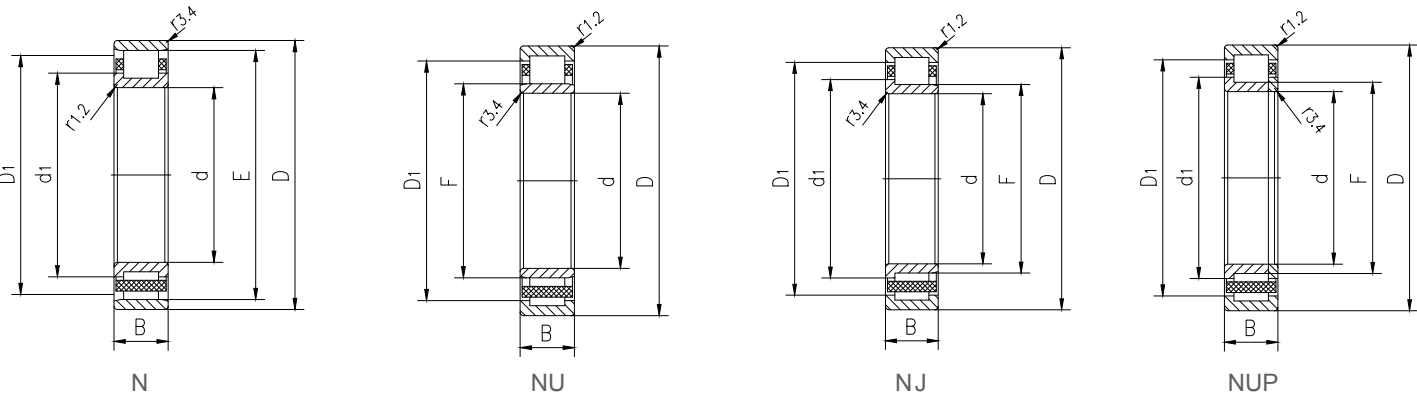


Type			Main dimensions			Dimensions								Shoulder and chamfer dimensions					
Bearings with standard cage	Optional Standard Cage	Corner ring	d	D	B	d _i	D _i	F, E	r _{1.2} min.	r _{3.4} min.	s max.	B ₁	B ₂	d _a min.	d _a max.	d _b , D _a min.	D _a max.	r _a max.	r _b max.
-			mm			mm								mm					
N318ECP	M	—	90	190	43	124	—	169.5	3	3	2.5	—	—	104	166	173	175	2.5	2.5
NJ318ECP	J,M,ML	HJ 318 EC	90	190	43	124	160.3	113.5	3	3	2.5	12	19	104	110	127	175.3	2.5	—
NUP318ECP	M,ML,P	—	90	190	43	124	160.3	113.5	3	3	—	—	—	104	—	127	175.3	2.5	—
NU2318ECP	J,M,ML	HJ 2318 EC	90	190	64	—	160.3	113.5	3	3	6	12	22	104	110	116	175.3	2.5	2.5
NJ2318ECP	J,M,ML	HJ 2318 EC	90	190	64	124	160.3	113.5	3	3	6	12	22	104	110	127	175.3	2.5	—
NUP2318ECP	J,M,ML	—	90	190	64	124	160.3	113.5	3	3	—	—	—	104	—	127	175.3	2.5	—
NU418M	—	—	90	225	54	—	179.5	123.5	4	4	4.9	—	—	108	120	126	205	3	3
NU1019ML	—	—	95	145	24	—	127.1	108	1.5	1.1	3.5	—	—	101	106	111	138	1.5	1
N219ECP	—	—	95	170	32	120	—	154.5	2.1	2.1	1.7	—	—	107	152	157	159	2	2
NU219ECP	J,M,ML	HJ 219 EC	95	170	32	—	147.4	112.5	2.1	2.1	1.7	9	14	107	110	115	157.8	2	2
NJ219ECP	J,M,ML	HJ 219 EC	95	170	32	120	147.4	112.5	2.1	2.1	1.7	9	14	107	110	123	157.8	2	—
NUP219ECP	J,M,ML	—	95	170	32	120	147.4	112.5	2.1	2.1	—	—	—	107	—	123	157.8	2	—
NU2219ECP	J,ML	—	95	170	43	—	147.4	112.5	2.1	2.1	3	—	—	107	110	115	157.8	2	2
NJ2219ECP	J,ML	—	95	170	43	120	147.4	112.5	2.1	2.1	3	—	—	107	110	123	157.8	2	—
NUP2219ECP	J,ML	—	95	170	43	120	147.4	112.5	2.1	2.1	—	—	—	107	—	123	157.8	2	—
N319ECP	M	—	95	200	45	132	—	177.5	3	3	2.9	—	—	110	174	181	185	2.5	2.5
NU319ECP	J,M,ML	HJ 319 EC	95	200	45	—	168.3	121.5	3	3	2.9	13	21	110	118	125	185	2.5	2.5
NJ319ECP	J,M,ML	HJ 319 EC	95	200	45	132	168.3	121.5	3	3	2.9	13	21	110	118	135	185	2.5	—
NUP319ECP	J,M,ML	—	95	200	45	132	168.3	121.5	3	3	—	—	—	110	—	135	185	2.5	—
NU2319ECP	J,ML	HJ 2319 EC	95	200	67	—	168.3	121.5	3	3	6.9	13	25	110	118	125	185	2.5	2.5
NJ2319ECP	ML,P	HJ 2319 EC	95	200	67	132	168.3	121.5	3	3	6.9	13	25	110	118	135	185	2.5	—
NUP2319ECP	ML,P	—	95	200	67	132	168.3	121.5	3	3	—	—	—	110	—	135	185	2.5	—
NU419M	—	—	95	240	55	—	188	133.5	4	4	5	—	—	114	130	136	220	3	3
NU1020ML	M	—	100	150	24	—	132.1	113	1.5	1.1	3.5	—	—	106	111	116	143	1.5	1
NU220ECP	J,M,ML	HJ 220 EC	100	180	34	—	155.6	119	2.1	2.1	1.7	10	15	113	116	122	167.5	2	2
N220ECP	—	—	100	180	34	127	—	163	2.1	2.1	1.7	—	—	113	160	166	168	2	2
NJ220ECP	J,M,ML	HJ 220 EC	100	180	34	127	155.6	119	2.1	2.1	1.7	10	15	113	116	130	167.5	2	—
NUP220ECP	J,M,ML	—	100	180	34	127	155.6	119	2.1	2.1	—	—	—	113	—	130	167.5	2	—
NU2220ECP	J,M,ML,PH	HJ 2220 EC	100	180	46	—	155.6	119	2.1	2.1	2.5	10	16	113	116	122	167.5	2	2
NJ2220ECP	J,M,ML,PH	HJ 2220 EC	100	180	46	127	155.6	119	2.1	2.1	2.5	10	16	113	116	130	167.5	2	—
NUP2220ECP	J,M,ML,PH	—	100	180	46	127	155.6	119	2.1	2.1	—	—	—	113	—	130	167.5	2	—
N320ECP	M	—	100	215	47	139	—	191.5	3	3	2.9	—	—	114	188	195	200	2.5	2.5
NU320ECP	J,M,ML	HJ 320 EC	100	215	47	—	181.1	127.5	3	3	2.9	13	21	114	124	131	199.6	2.5	2.5
NJ320ECP	M,ML,P	HJ 320 EC	100	215	47	139	181.1	127.5	3	3	2.9	13	21	114	124	142	199.6	2.5	—
NUP320ECP	M,ML,P	—	100	215	47	139	181.1	127.5	3	3	—	—	—	114	—	142	199.6	2.5	—
NJ2320ECP	M,ML,P	HJ 2320 EC	100	215	73	139	181.1	127.5	3	3	5.9	13	24	114	124	142	199.6	2.5	—
NU2320ECP	J,M,ML	HJ 2320 EC	100	215	73	—	181.1	127.5	3	3	5.9	13	24	114	124	131	199.6	2.5	2.5

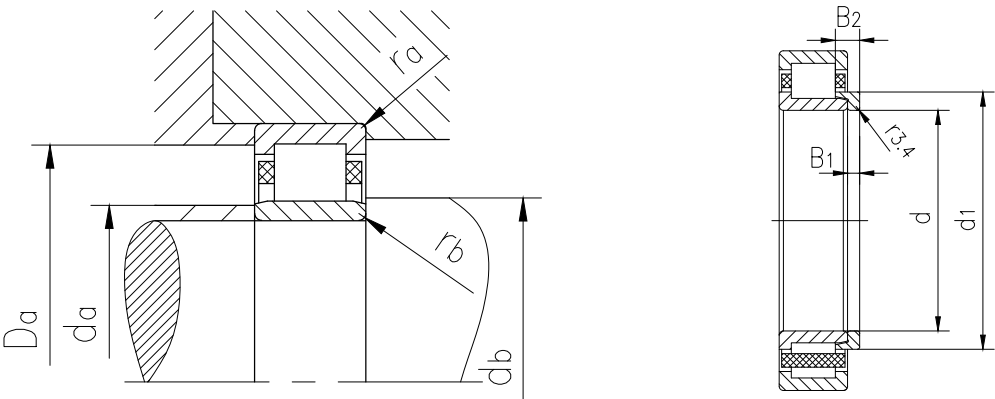


Type			Weight	Weight of corner ring	Basic load rating		Fatigue load limit	Rated speed reference speed	Maximum speed	Calculate the coefficient
Bearings with standard cage	Optional Standard Cage	Corner ring			Dynamic C	Static C ₀	P _u			k _r
-			kg	kg	kN			r/min		-
N318ECP	M	—	5.3	—	383.25	378	45.15	3990	4725	0.12
NJ318ECP	J,M,ML	HJ 318 EC	5.45	0.62	383.25	378	45.15	3990	4725	0.15
NUP318ECJ	M,ML,P	—	5.55	—	383.25	378	45.15	3990	4725	0.15
NU2318ECP	J,M,ML	HJ 2318 EC	8	0.66	525	567	68.775	3990	4725	0.25
NJ2318ECP	J,M,ML	HJ 2318 EC	8.15	0.66	525	567	68.775	3990	4725	0.25
NUP2318ECP	J,M,ML	—	8.25	—	525	567	68.775	3990	4725	0.25
NU418M	—	—	10	—	399	435.75	50.4	3570	4200	0.15
NU1019ML	—	—	1.45	—	88.41	115.5	13.86	4515	4200	0.15
N219ECP	—	—	2.85	—	267.75	278.25	34.125	4515	5040	0.12
NU219ECP	J,M,ML	HJ 219 EC	2.85	0.33	267.75	278.25	34.125	4515	5040	0.15
NJ219ECP	J,M,ML	HJ 219 EC	2.9	0.33	267.75	278.25	34.125	4515	5040	0.15
NUP219ECP	J,M,ML	—	2.9	—	267.75	278.25	34.125	4515	5040	0.15
NU2219ECP	J,ML	—	3.8	—	341.25	393.75	47.775	4515	5040	0.2
NJ2219ECP	J,ML	—	3.95	—	341.25	393.75	47.775	4515	5040	0.2
NUP2219ECP	J,ML	—	4	—	341.25	393.75	47.775	4515	5040	0.2
N319ECP	M	—	6.2	—	409.5	409.5	48.825	3780	4515	0.12
NU319ECP	J,M,ML	HJ 319 EC	6.2	0.78	409.5	409.5	48.825	3780	4515	0.15
NJ319ECP	J,M,ML	HJ 319 EC	6.3	0.78	409.5	409.5	48.825	3780	4515	0.15
NUP319ECP	J,M,ML	—	6.3	—	409.5	409.5	48.825	3780	4515	0.15
NU2319ECP	J,ML	HJ 2319 EC	9.35	0.76	556.5	614.25	72.975	3780	4515	0.25
NJ2319ECJ	ML,P	HJ 2319 EC	9.55	0.76	556.5	614.25	72.975	3780	4515	0.25
NUP2319ECJ	ML,P	—	9.7	—	556.5	614.25	72.975	3780	4515	0.25
NU419M	—	—	13.5	—	433.65	477.75	54.6	3360	3780	0.15
NU1020ML	M	—	1.45	—	90.09	119.7	14.385	5250	7875	0.15
NU220ECP	J,M,ML	HJ 220 EC	3.35	0.43	299.25	320.25	38.325	4200	4725	0.15
N220ECP	—	—	3.45	—	299.25	320.25	38.325	4200	4725	0.12
NJ220ECP	J,M,ML	HJ 220 EC	3.45	0.43	299.25	320.25	38.325	4200	4725	0.15
NUP220ECP	J,M,ML	—	3.6	—	299.25	320.25	38.325	4200	4725	0.15
NU2220ECP	J,M,ML,PH	HJ 2220 EC	4.75	0.43	399	472.5	56.7	4200	4725	0.2
NJ2220ECP	J,M,ML,PH	HJ 2220 EC	4.8	0.43	399	472.5	56.7	4200	4725	0.2
NUP2220ECP	J,M,ML,PH	—	4.8	—	399	472.5	56.7	4200	4725	0.2
N320ECP	M	—	7.35	—	472.5	462	53.55	3360	3990	0.12
NU320ECP	J,M,ML	HJ 320 EC	7.45	0.87	472.5	462	53.55	3360	3990	0.15
NJ320ECJ	M,ML,P	HJ 320 EC	7.65	0.87	472.5	462	53.55	3360	3990	0.15
NUP320ECJ	M,ML,P	—	7.7	—	472.5	462	53.55	3360	3990	0.15
NJ2320ECJ	M,ML,P	HJ 2320 EC	12	0.91	703.5	771.75	89.25	3360	3990	0.25
NU2320ECP	J,M,ML	HJ 2320 EC	12	0.91	703.5	771.75	89.25	3360	3990	0.25

Single row cylindrical roller bearings

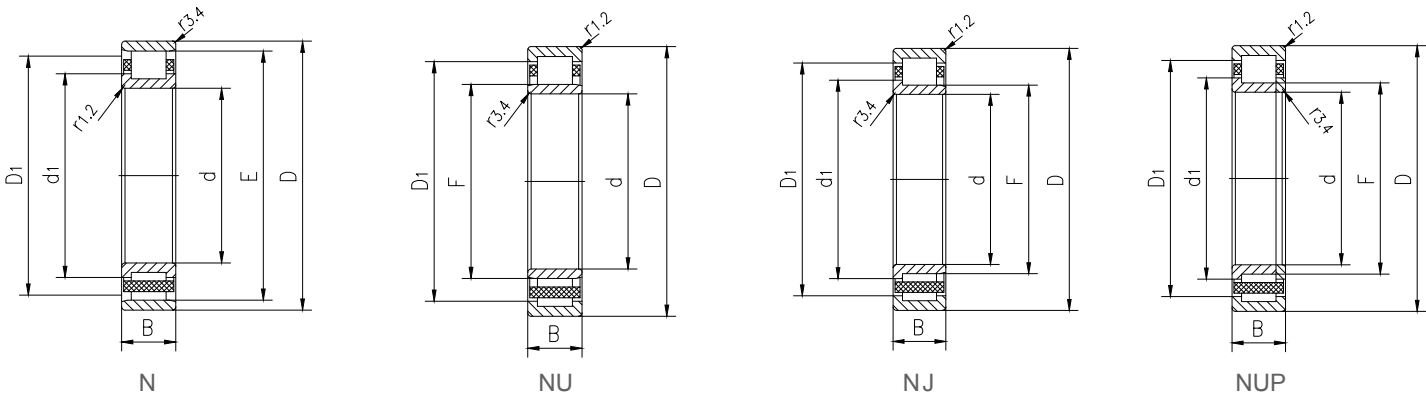


Type			Main dimensions			Dimensions								Shoulder and chamfer dimensions					
Bearings with standard cage	Optional Standard Cage	Corner ring	d	D	B	d ₁ ≈	D ₁ ≈	F、E	r _{1.2} min.	r _{3.4} min.	s max.	B ₁	B ₂	d _a min.	d _a max.	d _b 、D _a min.	D _a max.	r _a max.	r _b max.
-			mm			mm								mm					
NUP2320ECJ	M,ML,P	—	100	215	73	139	181.1	127.5	3	3	—	—	—	114	—	142	199.6	2.5	—
NU420M	—	HJ 420	100	250	58	—	197.45	139	4	4	4.9	16	27	119	135	142	230	3	3
NU1021ML	—	—	105	160	26	—	140.8	119.5	2	1.1	3.8	—	—	111	117	122	151	2	1
N221ECP	—	—	105	190	36	134	—	173	2.1	2.1	2	—	—	117	170	176	178	2	2
NU221ECP	J,ML	HJ 221 EC	105	190	36	—	164	125	2.1	2.1	2	10	16	117	122	128	177.3	2	2
NJ221ECP	J,ML	HJ 221 EC	105	190	36	134	164	125	2.1	2.1	2	10	16	117	122	137	177.3	2	—
NUP221ECP	J,ML	—	105	190	36	134	164	125	2.1	2.1	—	—	—	117	—	137	177.3	2	—
NU321ECP	J,ML	—	105	225	49	—	189	133	3	3	3.4	—	—	119	129	136	209.4	2.5	2.5
N321ECP	—	—	105	225	49	145	—	201	3	3	3.4	—	—	119	198	205	210	2.5	2.5
NJ321ECP	J,ML	—	105	225	49	145	189	133	3	3	3.4	—	—	119	129	148	209.4	2.5	—
NU421M	—	—	105	260	60	—	206.3	144.5	4	4	4.9	—	—	124	140	147	241	3	3
NU1022ML	M	—	110	170	28	—	149.7	125	2	1.1	3.8	—	—	116	122	128	160	2	1
NU222ECP	J,M,ML	HJ 222 EC	110	200	38	—	172.5	132.5	2.1	2.1	2.1	11	17	122	129	135	187	2	2
N222ECP	M	—	110	200	38	141	—	180.5	2.1	2.1	2.1	—	—	122	177	184	188	2	2
NJ222ECP	J,M,ML	HJ 222 EC	110	200	38	141	172.5	132.5	2.1	2.1	2.1	11	17	122	129	144	187	2	—
NUP222ECP	J,M,ML	—	110	200	38	141	172.5	132.5	2.1	2.1	—	—	—	122	—	144	187	2	—
NJ222ECP	J,ML	—	110	200	53	141	172.5	132.5	2.1	2.1	3.7	—	—	122	129	144	187	2	—
NU222ECP	J,ML	—	110	200	53	—	172.5	132.5	2.1	2.1	3.7	—	—	122	129	135	187	2	2
NUP222ECP	J,ML	—	110	200	53	141	172.5	132.5	2.1	2.1	—	—	—	122	—	144	187	2	—
N322ECP	M	—	110	240	50	155	—	211	3	3	3	—	—	124	208	215	225	2.5	2.5
NJ322ECJ	M,ML,P	HJ 322 EC	110	240	50	155	200	143	3	3	3	14	22	124	139	159	225.2	2.5	—
NU322ECP	J,M,ML	HJ 322 EC	110	240	50	—	200	143	3	3	3	14	22	124	139	146	225.2	2.5	2.5
NUP322ECP	J,M,ML	—	110	240	50	155	200	143	3	3	—	—	—	124	—	159	225.2	2.5	—
NJ2322ECP	ML	HJ 2322 EC	110	240	80	155	200	143	3	3	7.5	14	27	124	139	159	225.2	2.5	—
NU2322ECP	ML	HJ 2322 EC	110	240	80	—	200	143	3	3	7.5	14	27	124	139	146	225.2	2.5	2.5
NUP2322ECP	ML	—	110	240	80	155	200	143	3	3	—	—	—	124	—	159	225.2	2.5	—
NJ422M	—	HJ 422	110	280	65	171	219.65	155	4	4	4.8	30	—	131	151	175	260	3	—
NU1024ML	M	—	120	180	28	—	159.7	135	2	1.1	3.8	—	—	126	133	138	171	2	1
N224ECP	M	—	120	215	40	153	—	195.5	2.1	2.1	1.9	—	—	132	192	199	203	2	2
NU224ECP	J,M,ML	HJ 224 EC	120	215	40	—	186.55	143.5	2.1	2.1	1.9	11	17	132	140	146	201.6	2	2
NJ224ECP	J,M,ML	HJ 224 EC	120	215	40	153	186.55	143.5	2.1	2.1	1.9	11	17	132	140	156	201.6	2	—
NUP224ECJ	M,ML,P	—	120	215	40	153	186.55	143.5	2.1	2.1	—	—	—	132	—	156	201.6	2	—
NU2224ECP	J,M,ML	HJ 2224 EC	120	215	58	—	186.9	143.5	2.1	2.1	3.8	11	20	132	140	146	201.6	2	2
NJ2224ECJ	M,ML,P	HJ 2224 EC	120	215	58	153	186.9	143.5	2.1	2.1	3.8	11	20	132	140	156	201.6	2	—
NUP2224ECP	J,M,ML	—	120	215	58	153	186.9	143.5	2.1	2.1	—	—	—	132	—	156	201.6	2	—
N324ECP	M	—	120	260	55	168	—	230	3	3	3.7	—	—	134	226	235	245	2.5	2.5
NU324ECP	J,M,ML	HJ 324 EC	120	260	55	—	217.8	154	3	3	3.7	14	23	134	150	157	244.8	2.5	2.5

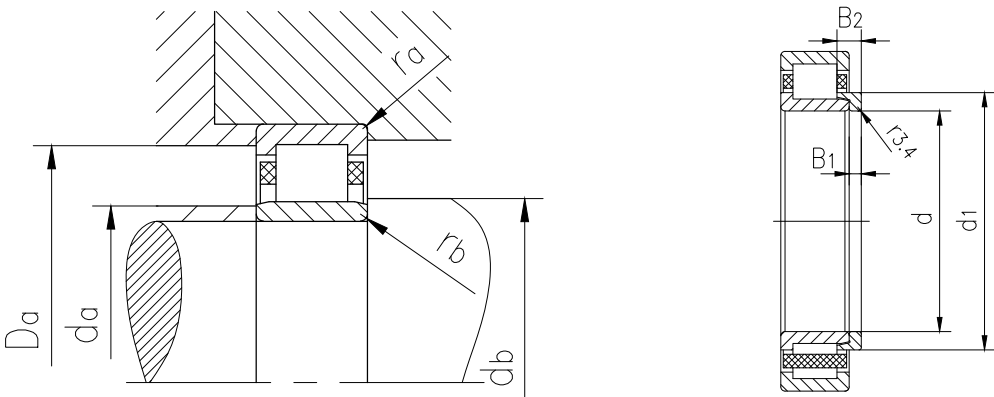


Type			Weight	Weight of corner ring	Basic load rating		Fatigue load limit	Rated speed reference speed	Maximum speed	Calculate the coefficient
Bearings with standard cage	Optional Standard Cage	Corner ring			Dynamic C	Static C ₀	P _u			k _r
-			kg	kg	kN			r/min		-
NUP2320ECJ	M,ML,P	—	12.5	—	703.5	771.75	89.25	3360	3990	0.25
NU420M	—	HJ 420	15.5	1.5	479.85	546	61.425	3150	3780	0.15
NU1021ML	—	—	1.9	—	106.05	143.85	16.8	5040	7875	0.15
N221ECP	—	—	3.9	—	315	330.75	38.325	3990	4515	0.12
NU221ECP	J,ML	HJ 221 EC	3.95	0.5	315	330.75	38.325	3990	4515	0.15
NJ221ECP	J,ML	HJ 221 EC	4	0.5	315	330.75	38.325	3990	4515	0.15
NUP221ECP	J,ML	—	4.2	—	315	330.75	38.325	3990	4515	0.15
NU321ECP	J,ML	—	8.5	—	525	525	59.85	3360	3990	0.15
N321ECP	—	—	8.6	—	525	525	59.85	3360	3990	0.12
NJ321ECP	J,ML	—	9.05	—	525	525	59.85	3360	3990	0.15
NU421M	—	—	17.5	—	526.05	598.5	67.2	2940	3570	0.15
NU1022ML	M	—	2.3	—	134.4	174.3	20.265	4725	7350	0.15
NU222ECP	J,M,ML	HJ 222 EC	4.7	0.62	351.75	383.25	44.625	3780	4200	0.15
N222ECP	M	—	4.8	—	351.75	383.25	44.625	3780	4200	0.12
NJ222ECP	J,M,ML	HJ 222 EC	4.8	0.62	351.75	383.25	44.625	3780	4200	0.15
NUP222ECP	J,M,ML	—	5	—	351.75	383.25	44.625	3780	4200	0.15
NJ2222ECP	J,ML	—	6.7	—	462	546	64.05	3780	4200	0.2
NU2222ECP	J,ML	—	6.7	—	462	546	64.05	3780	4200	0.2
NUP2222ECP	J,ML	—	7	—	462	546	64.05	3780	4200	0.2
N322ECP	M	—	10	—	556.5	567	64.05	3150	3570	0.12
NJ322ECJ	M,ML,P	HJ 322 EC	10.5	1.2	556.5	567	64.05	3150	3570	0.15
NU322ECP	J,M,ML	HJ 322 EC	10.5	1.2	556.5	567	64.05	3150	3570	0.15
NUP322ECP	J,M,ML	—	10.5	—	556.5	567	64.05	3150	3570	0.15
NJ2322ECP	ML	HJ 2322 EC	17	1.25	819	945	107.1	3150	3570	0.25
NU2322ECP	ML	HJ 2322 EC	17	1.25	819	945	107.1	3150	3570	0.25
NUP2322ECP	ML	—	17.5	—	819	945	107.1	3150	3570	0.25
NJ422M	—	HJ 422	22.5	17	577.5	661.5	72.975	2730	3360	0.15
NU1024ML	M	—	2.55	—	140.7	192.15	21.84	4200	6615	0.15
N224ECP	M	—	5.75	—	409.5	451.5	51.45	3570	3780	0.12
NU224ECP	J,M,ML	HJ 224 EC	5.75	0.71	409.5	451.5	51.45	3570	3780	0.15
NJ224ECP	J,M,ML	HJ 224 EC	5.85	0.71	409.5	451.5	51.45	3570	3780	0.15
NUP224ECJ	M,ML,P	—	5.95	—	409.5	451.5	51.45	3570	3780	0.15
NU2224ECP	J,M,ML	HJ 2224 EC	8.2	0.73	546	661.5	75.6	3570	3780	0.2
NJ2224ECJ	M,ML,P	HJ 2224 EC	8.65	0.73	546	661.5	75.6	3570	3780	0.2
NUP2224ECP	J,M,ML	—	8.65	—	546	661.5	75.6	3570	3780	0.2
N324ECP	M	—	13	—	640.5	651	72.975	2940	3360	0.12
NU324ECP	J,M,ML	HJ 324 EC	13	1.4	640.5	651	72.975	2940	3360	0.15

Single row cylindrical roller bearings



Type			Main dimensions			Dimensions								Shoulder and chamfer dimensions					
Bearings with standard cage	Optional Standard Cage	Corner ring	d	D	B	d ₁ ≈	D ₁ ≈	F, E	r _{1.2} min.	r _{3.4} min.	s max.	B ₁	B ₂	d _a min.	d _a max.	d _b , D _a min.	D _a max.	r _a max.	r _b max.
-			mm			mm								mm					
NJ324ECJ	M,ML,P	HJ 324 EC	120	260	55	168	217.8	154	3	3	3.7	14	23	134	150	171	244.8	2.5	—
NUP324ECP	J,M,ML	—	120	260	55	168	217.8	154	3	3	—	—	—	134	—	171	244.8	2.5	—
NU2324ECML	M	HJ 2324 EC	120	260	86	—	218.7	154	3	3	7.2	14	26	134	150	157	244.8	2.5	2.5
NJ2324ECML	M	HJ 2324 EC	120	260	86	168	218.7	154	3	3	7.2	14	26	134	150	171	244.8	2.5	—
NUP2324ECML	M	—	120	260	86	168	218.7	154	3	3	—	—	—	134	—	171	244.8	2.5	—
NU424	M	HJ 424	120	310	72	—	238.5	170	5	5	6.3	17	31	144	165	173	286	4	4
NU1026ML	M	—	130	200	33	—	175.2	148	2	1.1	4.7	—	—	137	145	151	191	2	1
NJ1026ML	M	—	130	200	33	154	175.2	148	2	1.1	4.7	—	—	137	145	158	191	2	—
N226ECP	—	—	130	230	40	164	—	209.5	3	3	2.1	—	—	144	206	213	217	2.5	2.5
NU226ECP	J,M,ML	HJ 226 EC	130	230	40	—	200.3	153.5	3	3	2.1	11	17	144	150	157	215.4	2.5	2.5
NUP226ECJ	M,ML,P	—	130	230	40	164	200.3	153.5	3	3	—	—	—	144	—	167	215.4	2.5	—
NJ226ECP	J,M,ML	HJ 226 EC	130	230	40	164	200.3	153.5	3	3	2.1	11	17	144	150	167	215.4	2.5	—
NU2226ECP	ML	HJ 2226 EC	130	230	64	—	200.3	153.5	3	3	4.3	11	21	144	150	157	215.4	2.5	2.5
NUP2226ECP	—	—	130	230	64	164	200.3	153.5	3	3	—	—	—	144	—	167	215.4	2.5	—
NJ2226ECML	P	HJ 2226 EC	130	230	64	164	201.2	153.5	3	3	4.3	11	21	144	150	167	215.4	2.5	—
NU326ECP	J,M,ML	HJ 326 EC	130	280	58	—	234.2	167	4	4	3.7	14	23	147	163	170	261.4	3	3
NJ326ECJ	M,ML,P	HJ 326 EC	130	280	58	181	234.2	167	4	4	3.7	14	23	147	163	184	261.4	3	—
N326ECM	P	—	130	280	58	181	—	247	4	4	3.7	—	—	147	243	251	262	3	3
NUP326ECP	J,M,ML	—	130	280	58	181	234.2	167	4	4	—	—	—	147	—	184	261.4	3	—
NU2326ECML	PA	HJ 2326 EC	130	280	93	—	235.2	167	4	4	8.7	14	28	147	163	170	261.4	3	3
NJ2326ECML	PA	HJ 2326 EC	130	280	93	181	235.2	167	4	4	8.7	14	28	147	163	184	261.4	3	—
NUP2326ECML	—	—	130	280	93	181	235.2	167	4	4	—	—	—	147	—	184	261.4	3	—
NU1028ML	M	—	140	210	33	—	184.2	158	2	1.1	4.4	—	—	147	155	161	201	2	1
NUP228ECJ	M,ML	—	140	250	42	179	215.78	169	3	3	—	—	—	154	—	182	235	2.5	—
NJ228ECJ	M,ML	HJ 228 EC	140	250	42	179	215.78	169	3	3	2.5	11	18	154	165	182	235	2.5	—
NU228ECM	J,ML	HJ 228 EC	140	250	42	—	215.78	169	3	3	2.5	11	18	154	165	172	235	2.5	2.5
NU2228ECML	PA	HJ 2228 EC	140	250	68	—	216.7	169	3	3	4.4	11	23	154	165	172	235	2.5	2.5
NJ2228ECML	PA	HJ 2228 EC	140	250	68	179	216.7	169	3	3	4.4	11	23	154	165	182	235	2.5	—
NUP2228ECML	—	—	140	250	68	179	216.7	169	3	3	—	—	—	154	—	182	235	2.5	—
NJ328ECJ	M,ML	HJ 328 EC	140	300	62	195	250.6	180	4	4	3.7	15	25	157	175	199	282.5	3	—
NU328ECM	J,ML	HJ 328 EC	140	300	62	—	250.6	180	4	4	3.7	15	25	157	175	183	282.5	3	3
NUP328ECM	—	—	140	300	62	195	250.6	180	4	4	—	—	—	157	—	199	282.5	3	—
NU2328ECML	—	HJ 2328 EC	140	300	102	—	251.7	180	4	4	9.7	15	31	157	175	183	282.5	3	3
NJ2328ECML	—	HJ 2328 EC	140	300	102	195	251.7	180	4	4	9.7	15	31	157	175	199	282.5	3	—
NUP2328ECML	—	—	140	300	102	195	251.7	180	4	4	—	—	—	157	—	199	282.5	3	—
NU1030ML	M	—	150	225	35	—	199.05	169.5	2.1	1.5	4.9	—	—	158	167	173	215	2	1.5
NUP230ECJ	M,ML	—	150	270	45	193	232.2	182	3	3	—	—	—	164	—	196	254.6	2.5	—



Type			Weight	Weight of corner ring	Basic load rating		Fatigue load limit	Rated speed reference speed	Maximum speed	Calculate the coefficient
Bearings with standard cage	Optional Standard Cage	Corner ring			Dynamic C	Static C ₀	P _u			k _r
-			kg	kg	kN			r/min		-
NJ324ECJ	M,ML,P	HJ 324 EC	13.5	1.4	640.5	651	72.975	2940	3360	0.15
NUP324ECP	J,M,ML	—	14	—	640.5	651	72.975	2940	3360	0.15
NU2324ECML	M	HJ 2324 EC	22.5	1.45	960.75	1092	121.8	2940	5250	0.38
NJ2324ECML	M	HJ 2324 EC	23	1.45	960.75	1092	121.8	2940	5250	0.38
NUP2324ECML	M	—	23.5	—	960.75	1092	121.8	2940	5250	0.38
NU424	M	HJ 424	27.5	2.6	676.2	771.75	81.9	2520	2940	0.15
NU1026ML	M	—	3.85	—	173.25	235.2	26.25	3990	5880	0.15
NJ1026ML	M	—	3.9	—	173.25	235.2	26.25	3990	5880	0.15
N226ECP	—	—	6.45	—	435.75	477.75	53.55	3360	3570	0.12
NU226ECP	J,M,ML	HJ 226 EC	6.45	0.75	435.75	477.75	53.55	3360	3570	0.15
NUP226ECJ	M,ML,P	—	6.5	—	435.75	477.75	53.55	3360	3570	0.15
NJ226ECP	J,M,ML	HJ 226 EC	6.6	0.75	435.75	477.75	53.55	3360	3570	0.15
NU2226ECP	ML	HJ 2226 EC	10	0.83	640.5	771.75	87.15	3360	3570	0.2
NUP2226ECP	—	—	10.5	—	640.5	771.75	87.15	3360	3570	0.2
NJ2226ECML	P	HJ 2226 EC	12	0.83	640.5	771.75	87.15	3360	5565	0.3
NU326ECP	J,M,ML	HJ 326 EC	16	1.65	756	787.5	85.575	2520	3150	0.15
NJ326ECJ	M,ML,P	HJ 326 EC	16.5	1.65	756	787.5	85.575	2520	3150	0.15
N326ECM	P	—	18	—	756	787.5	85.575	2520	3150	0.12
NUP326ECP	J,M,ML	—	19.5	—	756	787.5	85.575	2520	3150	0.15
NU2326ECML	PA	HJ 2326 EC	28.5	1.6	1113	1312.5	143.85	2520	4725	0.38
NJ2326ECML	PA	HJ 2326 EC	29.5	1.6	1113	1312.5	143.85	2520	4725	0.38
NUP2326ECML	—	—	29.5	—	1113	1312.5	143.85	2520	4725	0.38
NU1028ML	M	—	4.05	—	187.95	267.75	29.4	3780	5565	0.15
NUP228ECJ	M,ML	—	8.45	—	472.5	535.5	59.85	2940	3360	0.15
NJ228ECJ	M,ML	HJ 228 EC	8.6	0.97	472.5	535.5	59.85	2940	3360	0.15
NU228ECM	J,ML	HJ 228 EC	9.4	0.97	472.5	535.5	59.85	2940	3360	0.15
NU2228ECML	PA	HJ 2228 EC	15	1.05	687.75	871.5	97.65	2940	5040	0.3
NJ2228ECML	PA	HJ 2228 EC	15.5	1.05	687.75	871.5	97.65	2940	5040	0.3
NUP2228ECML	—	—	15.5	—	687.75	871.5	97.65	2940	5040	0.3
NJ328ECJ	M,ML	HJ 328 EC	20	2.05	819	871.5	92.4	2520	2940	0.15
NU328ECM	J,ML	HJ 328 EC	22.5	2.05	819	871.5	92.4	2520	2940	0.15
NUP328ECM	—	—	23.5	—	819	871.5	92.4	2520	2940	0.15
NU2328ECML	—	HJ 2328 EC	36	2.15	1260	1501.5	157.5	2520	4515	0.38
NJ2328ECML	—	HJ 2328 EC	36.5	2.15	1260	1501.5	157.5	2520	4515	0.38
NUP2328ECML	—	—	37	—	1260	1501.5	157.5	2520	4515	0.38
NU1030ML	M	—	4.9	—	207.9	304.5	33.075	3360	5250	0.15
NUP230ECJ	M,ML	—	10.5	—	535.5	630	67.2	2730	2940	0.15