



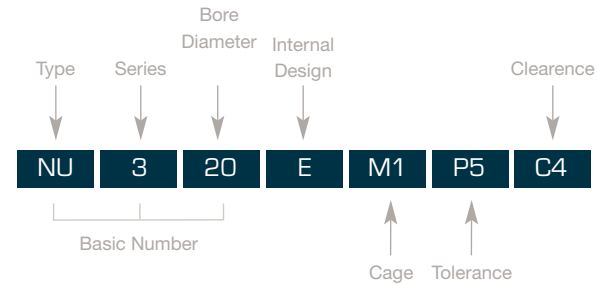
Cylindrical Roller

Single Row

Chapter 4
Single Row
pages 00 to 00



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Type

- N** Outer ring separable both sides
- NU** Inner Ring separable both sides
- NF** Outer ring separable one side
- NJ** Inner ring separable one side
- NH** NJ + HJ Thrust collar
- NN** Double row cylindrical bearings N Type
- NNU** Double row cylindrical bearings NU Type
- HJ** Angular Collar
- SL01** 2 Row Fixed
- SL02** 2 Row Float
- SL04** 2 Row Fixed
- SL18** 1 or 2 Semi-Fixed
- LSL19** 1 Row Semi-Fixed

Internal Design

- E** High capacity cylindrical roller bearings
- K** Tapered bearing bore 1:12
- K30** Tapered bearing bore 1:30

Cage

- F1** Machined steel cage
- J** Pressed steel cage
- M** Machined brass cage
- TV** Nylon cage
- P** Window type cage
- A** Outer lip riding
- B** Inner lip riding

Internal Clearance

- C1** Radial clearance less than C2
- C2** Radial clearance less than normal
- No Suffix** Normal Radial Clearance
- C3** Radial clearance greater than normal
- C4** Radial clearance greater than C3
- C5** Radial clearance greater than C4
- R** Special radial clearance, value micron.

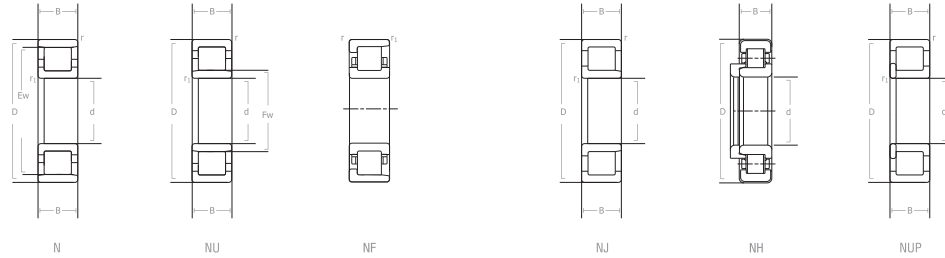
Tolerance

- Normal** ISO class 0
- P6** ISO Class 6 (equivalent to ABEC 3)
- P5** ISO Class 5 (equivalent to ABEC 5)
- P4** ISO Class 4 (equivalent to ABEC 7)
- SP** Super precision

Combining the suffix for tolerances and clearance:

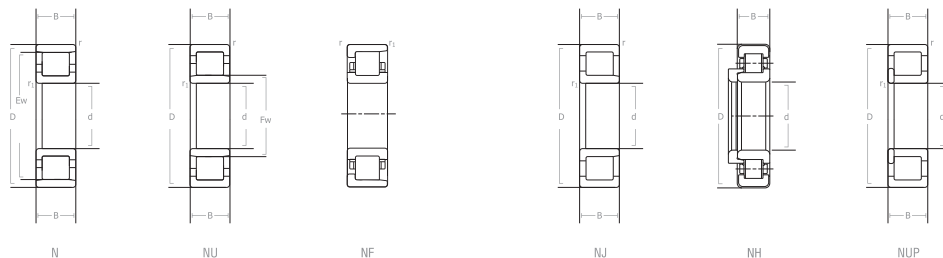
- P5 + C1 = P51**
- P5 + C2 = P52**
- P5 + C3 = P53**
- P4 + C1 = P41**

SINGLE ROW



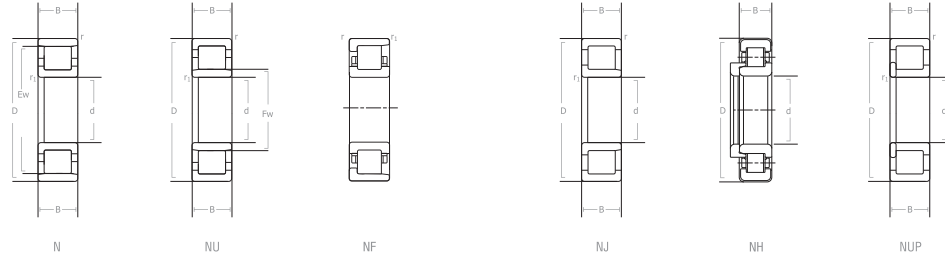
Principal dimensions					Basic load ratings			Speed ratings		Designations	Weight Kg	
mm					KN			Grease	Oil			
d	D	B	rmin	r1min	Fw	Cr	Cor					
15	35	11	0.60	0.30	19	12.70	10.40	18000	22000		NU202	0.05
17	40	12	0.60	0.30	22	17.60	14.60	15000	18000		NU203	0.07
	40	16	0.60	0.30	22	24.00	22.00	15000	18000		NU2203	0.09
	47	14	1.10	0.60	24	25.50	21.20	13000	16000		NU303	0.10
20	47	14	1.00	0.60	27	27.50	24.50	13000	16000		NU204	0.13
	47	18	1.00	0.60	27	32.50	31.00	13000	16000		NU2204	0.14
	52	15	1.10	0.60	28	31.50	27.00	11000	14000		NU304	0.15
	52	21	1.10	0.60	28	41.50	39.00	11000	14000		NU2304	0.21
25	47	12	0.60	0.30	31	13.40	12.00	14000	17000		NU1005	0.08
	52	15	1.00	0.60	32	29.00	27.50	12000	15000		NU205	0.14
	52	18	1.00	0.60	32	34.50	34.50	12000	15000		NU2205	0.16
	52	18	1.00	0.60	32	34.50	34.50	12000	15000		NJ2205	0.16
	62	17	1.10	1.10	34	41.50	37.50	9500	12000		NU305	0.24
	62	24	1.10	1.10	34	57.00	56.00	9500	12000		NU2305	0.35
	80	21	1.50	1.50	36	45.00	38.00	8500	10000		NU405	0.63
30	55	13	1.00	0.60	37	16.60	16.00	12000	15000		NU1006	0.13
	62	16	1.00	0.60	38	39.00	37.50	9500	12000		NU206	0.21
	62	20	1.00	0.60	38	49.00	50.00	9500	12000		NU2206	0.26
	72	19	1.10	1.10	41	51.00	48.00	8500	10000		NU306	0.37
	72	27	1.10	1.10	41	73.50	75.00	8500	10000		NU2306	0.53
	90	23	1.50	1.50	42	71.00	64.00	7000	8500		NU406	0.87
35	62	14	1.00	0.60	42	23.60	24.50	10000	13000		NU1007	0.19
	72	17	1.10	0.60	44	50.00	50.00	8500	10000		NU207	0.30
	72	23	1.10	0.60	44	62.00	65.50	8500	10000		NU2207	0.40
	80	21	1.50	1.10	46	64.00	63.00	7500	9000		NU307	0.49

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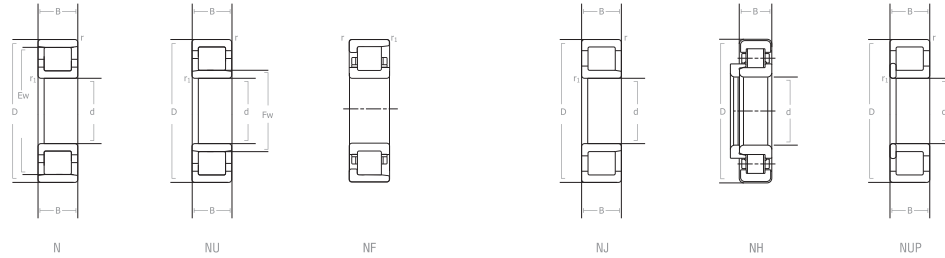
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mm					KN			Grease	Oil		
d	D	B	rmin	r1min	Fw	Cr	Cor				
	80	31	1.50	1.10	46	91.50	98.00	7500	9000	NU2307	0.72
	100	25	1.50	1.50	46	75.00	69.50	6300	7500	NU407	1.03
40	68	15	1.00	0.60	47	29.00	32.00	9500	12000	NU1008	0.23
	80	18	1.10	1.10	50	53.00	53.00	7500	9000	NU208	0.38
	80	23	1.10	1.10	50	71.00	75.00	7500	9000	NU2208	0.49
	90	23	1.50	1.50	52	81.50	78.00	6300	7500	NU308	0.66
	90	33	1.50	1.50	52	112.00	120.00	6300	7500	NU2308	0.95
	110	27	2.00	2.00	52	93.00	86.50	5600	6700	NU408	1.31
45	75	16	1.00	0.60	53	32.50	35.50	8500	10000	NU1009	0.29
	85	19	1.10	1.10	55	61.00	63.00	7000	8500	NU209	0.45
	85	23	1.10	1.10	55	73.50	81.50	7000	8500	NU2209	0.53
	100	25	1.50	1.50	59	98.00	100.00	5600	6700	NU309	0.90
	100	36	1.50	1.50	59	137.00	153.00	5600	6700	NU2309	1.29
	120	29	2.00	2.00	70	106.00	100.00	5000	6000	NU409	1.66
50	80	16	1.00	0.60	70	36.00	41.50	8000	9500	NU1010	0.32
	90	20	1.10	1.10	78	64.00	68.00	6700	8000	NU210	0.49
	90	23	1.10	1.10	78	78.00	88.00	6700	8000	NU2210	0.58
	110	27	2.00	2.00	93	110.00	114.00	5300	6300	NU310	1.14
	110	40	2.00	2.00	93	163.00	186.00	5300	6300	NU2310	1.74
	130	31	2.10	2.10	92	129.00	125.00	4500	5300	NU410	2.08
55	90	18	1.10	1.00	65	37.50	44.00	7500	9000	NU1011	0.45
	100	21	1.50	1.10	67	58.00	62.50	6300	7500	NU211	0.66
	100	25	1.50	1.10	67	75.50	87.00	6000	7100	NU2211	0.79
	120	29	2.00	2.00	71	111.00	111.00	5000	6300	NU311	1.45
	120	43	2.00	2.00	71	148.00	162.00	4500	5600	NU2311	2.16

SINGLE ROW



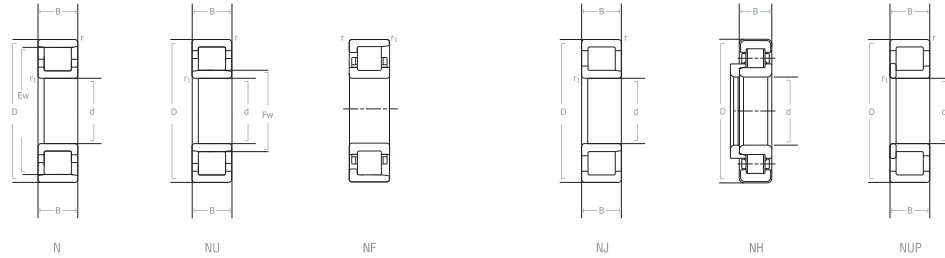
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mm					KN			Grease	Oil		
d	D	B	rmin	r1min	Fw	Cr	Cor				
60	140	33	2.10	2.10	77	139.00	138.00	4500	5600	NU411	2.60
	95	18	1.10	1.00	70	40.00	48.50	6700	8500	NU1012	0.48
	110	22	1.50	1.50	74	68.50	75.00	6000	7100	NU212	0.85
	110	28	1.50	1.50	74	96.00	116.00	5300	6300	NU2212	1.19
	130	31	2.10	2.10	77	124.00	126.00	4800	5600	NU312	1.92
	130	46	2.10	2.10	77	169.00	188.00	4300	5300	NU2312	2.79
65	150	35	2.10	2.10	83	167.00	168.00	4300	5300	NU412	3.14
	100	18	1.10	1.00	75	41.00	51.00	6300	8000	NU1013	0.50
	120	23	1.50	1.50	80	84.00	94.50	5300	6300	NU213	1.18
	120	31	1.50	1.50	80	120.00	149.00	4800	6000	NU2213	1.58
	140	33	2.10	2.10	84	135.00	139.00	4300	5300	NU313	2.34
	140	48	2.10	2.10	84	188.00	212.00	3800	4800	NU2313	3.36
70	160	37	2.10	2.10	90	182.00	186.00	4000	4800	NU413	3.75
	110	20	1.10	1.00	80	58.50	70.50	6000	7100	NU1014	0.69
	125	24	1.50	1.50	85	83.50	95.00	5000	6300	NU214	1.28
	125	31	1.50	1.50	85	119.00	151.00	4500	5600	NU2214	1.66
	150	35	2.10	2.10	90	158.00	168.00	4000	5000	NU314	2.87
	150	51	2.10	2.10	90	223.00	262.00	3600	4500	NU2314	4.16
75	180	42	3.00	3.00	100	228.00	236.00	3600	4300	NU414	5.30
	115	20	1.10	1.00	85	60.00	74.50	5600	6700	NU1015	0.73
	130	25	1.50	1.50	89	96.50	111.00	4800	6000	NU215	1.39
	130	31	1.50	1.50	89	130.00	162.00	4300	5300	NU2215	1.72
	160	37	2.10	2.10	96	179.00	189.00	3800	4800	NU315	3.40
	160	55	2.10	2.10	96	258.00	300.00	3400	4300	NU2315	5.10
190	45	3.00	3.00	105	262.00	274.00	3400	4000	NU415	6.40	

SINGLE ROW



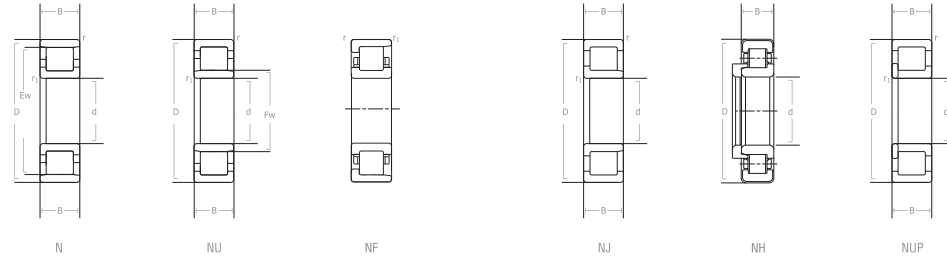
Principal dimensions					Basic load ratings			Speed ratings		Designations	Weight Kg
mm					KN			Grease	Oil		
d	D	B	r _{min}	r _{1min}	F _w	C _r	C _{or}				
80	125	22	1.10	1.00	92	72.50	90.50	5300	6300	NU1016	0.97
	140	26	2.00	2.00	95	106.00	122.00	4500	5300	NU216	1.60
	140	33	2.00	2.00	95	147.00	186.00	4000	5000	NU2216	2.10
	170	39	2.10	2.10	103	190.00	207.00	3600	4300	NU316	4.10
	170	58	2.10	2.10	103	274.00	330.00	3200	4000	NU2316	6.05
	200	48	3.00	3.00	110	299.00	315.00	3200	3800	NU416	7.50
85	130	22	1.10	1.00	97	74.50	95.50	5000	6000	NU1017	1.01
	150	28	2.00	2.00	102	120.00	140.00	4300	5000	NU217	2.00
	150	36	2.00	2.00	102	170.00	218.00	3800	4500	NU2217	2.60
	180	41	3.00	3.00	108	212.00	228.00	3400	4000	NU317	4.70
	180	60	3.00	3.00	108	315.00	380.00	3000	3800	NU2317	7.00
	210	52	4.00	4.00	116	335.00	350.00	3000	3800	NU417	9.70
90	140	24	1.50	1.10	103	88.00	114.00	4500	5600	NU1018	1.35
	160	30	2.00	2.00	107	152.00	178.00	4000	4800	NU218	2.50
	160	40	2.00	2.00	107	207.00	265.00	3600	4300	NU2218	3.40
	190	43	3.00	3.00	115	240.00	265.00	3200	3800	NU318	5.50
	190	64	3.00	3.00	115	325.00	395.00	2800	3600	NU2318	8.20
	225	54	4.00	4.00	124	375.00	400.00	2800	3400	NU418	11.70
95	145	24	1.50	1.10	108	90.50	120.00	4300	5300	NU1019	1.41
	170	32	2.10	2.10	114	158.00	183.00	3800	4500	NU219	2.90
	170	43	2.10	2.10	114	230.00	298.00	3400	4000	NU2219	4.00
	200	45	3.00	3.00	122	259.00	289.00	3000	3600	NU319	6.40
	200	67	3.00	3.00	122	370.00	460.00	2600	3400	NU2319	9.60
	240	55	4.00	4.00	134	400.00	445.00	2600	3200	NU419	13.80
100	150	24	1.50	1.10	113	93.00	126.00	4300	5300	NU1020	1.47

SINGLE ROW



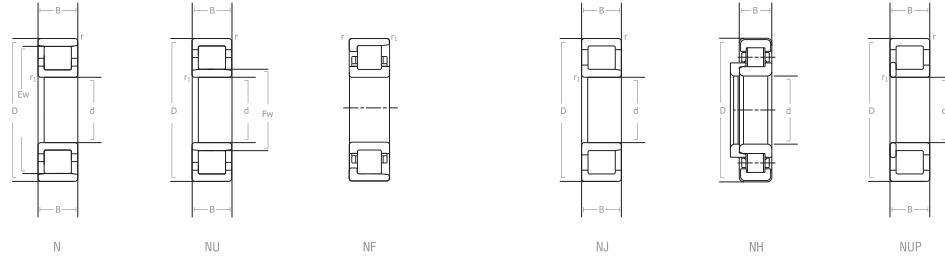
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mm					KN			Grease	Oil		
d	D	B	rmin	r1min	Fw	Cr	Cor				
	180	34	2.10	2.10	120	183.00	217.00	3600	4300	NU220	3.45
	180	46	2.10	2.10	120	246.00	315.00	3200	3800	NU2220	4.90
	215	47	3.00	3.00	130	299.00	335.00	2800	3400	NU320	7.95
	215	73	3.00	3.00	130	410.00	505.00	2400	3200	NU2320	12.10
	250	58	4.00	4.00	139	450.00	500.00	2600	3000	NU420	15.80
105	160	26	2.00	1.10	120	109.00	149.00	4000	4800	NU1021	1.83
	190	36	2.00		127	201.00	241.00	3400	4000	NU221	4.20
	225	49	3.00	3.00	135	320.00	360.00	2600	3200	NU321	8.90
	260	60	4.00	4.00	145	485.00	555.00	2400	3000	NU421	17.70
110	170	28	2.00	1.10	125	131.00	174.00	3800	4500	NU1022	2.27
	200	38	2.10	2.10	133	229.00	272.00	3200	3800	NU222	4.90
	200	53	2.10	2.10	133	320.00	415.00	2800	3400	NU2222	6.90
	240	50	3.00	3.00	143	360.00	400.00	2600	3000	NU322	10.50
	240	80	3.00	3.00	143	570.00	735.00	2200	2800	NU2322	18.90
	280	65	4.00	4.00	155	550.00	620.00	2200	2800	NU422	22.50
120	180	28	2.00	1.10	135	139.00	191.00	3400	4300	NU1024	2.43
	215	40	2.10	2.10	144	248.00	299.00	3000	3400	NU224	5.80
	215	58	2.10	2.10	144	350.00	460.00	2600	3200	NU2224	8.70
	260	55	3.00	3.00	154	450.00	510.00	2200	2800	NU324	13.80
	260	86	3.00	3.00	154	710.00	920.00	2000	2600	NU2324	23.90
	310	72	5.00	5.00	170	675.00	770.00	2000	2400	NU424	30.80
130	200	33	2.00	1.10	148	172.00	238.00	3200	3800	NU1026	3.66
	230	40	3.00	3.00	156	258.00	320.00	2600	3200	NU226	6.80
	230	64	3.00	3.00	156	380.00	530.00	2400	3000	NU2226	11.00
	280	58	4.00	4.00	167	500.00	570.00	2200	2600	NU326	16.70

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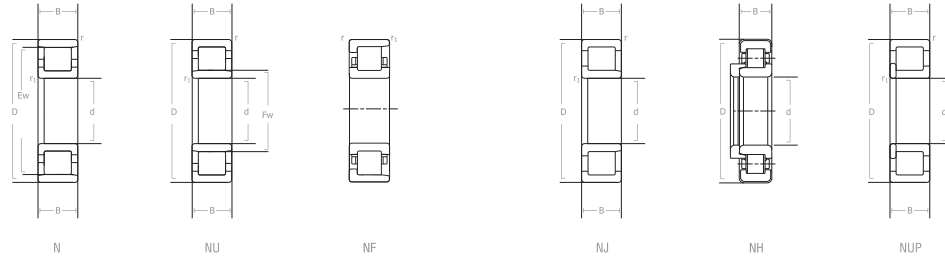
Principal dimensions					Basic load ratings			Speed ratings		Designations	Weight Kg
mm					KN			Grease	Oil		
d	D	B	rmin	r1min	Fw	Cr	Cor				
	280	93	4.00	4.00	167	840.00	1,130.00	1900	2400	NU2326	30.10
	340	78	5.00	5.00	185	825.00	955.00	1800	2200	NU426	40.30
140	210	33	2.00	1.10	158	176.00	250.00	3000	3600	NU1028	3.87
	250	42	3.00	3.00	169	297.00	375.00	2400	3000	NU228	8.50
	250	68	3.00	3.00	169	445.00	635.00	2200	2800	NU2228	13.80
	300	62	4.00	4.00	180	550.00	640.00	2000	2400	NU328	20.20
	300	102	4.00	4.00	180	920.00	1,250.00	1700	2200	NU2328	37.60
	360	82	5.00	5.00	196	875.00	1,020.00	1700	2000	NU428	47.50
150	225	35	2.10	1.50	170	202.00	294.00	2800	3400	NU1030	4.77
	270	45	3.00	3.00	182	345.00	435.00	2200	2800	NU230	11.00
	270	73	3.00	3.00	182	500.00	710.00	2000	2600	NU2230	17.50
	320	65	4.00	4.00	193	590.00	690.00	1800	2200	NU330	24.10
	320	108	4.00	4.00	193	1,160.00	1,600.00	1600	2000	NU2330	49.00
	380	85	5.00	5.00	213	930.00	1,120.00	1600	2000	NU430	55.10
160	240	38	2.10	1.50	180	238.00	340.00	2600	3200	NU1032	5.81
	290	48	3.00	3.00	195	430.00	570.00	2200	2600	NU232	15.50
	290	80	3.00	3.00	195	630.00	940.00	1900	2400	NU2232	25.20
	340	68	4.00	4.00	208	700.00	875.00	1700	2000	NU332	32.60
	340	114	4.00	4.00	204	1,310.00	1,820.00	1500	1900	NU2332	56.50
170	260	42	2.10	2.10	193	287.00	415.00	2400	2800	NU1034	7.91
	310	52	4.00	4.00	208	475.00	635.00	2000	2400	NU234	18.80
	310	86	4.00	4.00	208	715.00	1,080.00	1800	2200	NU2234	30.50
	360	72	4.00	4.00	220	795.00	1,010.00	1600	2000	NU334	39.00
180	280	46	2.10	2.10	205	355.00	510.00	2200	2600	NU1036	10.20
	320	52	4.00	4.00	218	495.00	675.00	1900	2200	NU236	19.50

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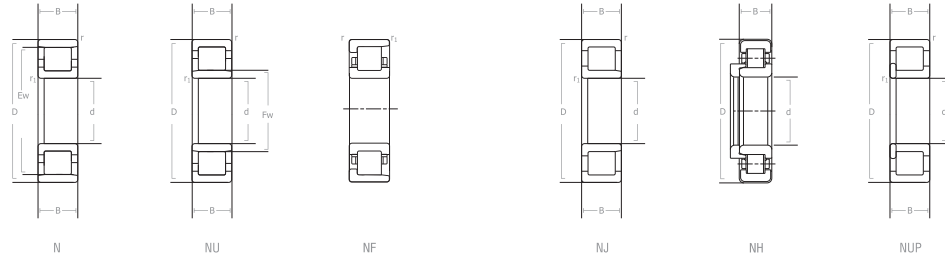
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mm					KN			Grease	Oil		
d	D	B	rmin	r1min	Fw	Cr	Cor				
	320	86	4.00	4.00	218	745.00	1,140.00	1700	2000	NU2236	33.00
	380	75	4.00	4.00	232	905.00	1,150.00	1500	1800	NU336	45.00
190	290	46	2.10	2.10	215	365.00	535.00	2000	2600	NU1038	10.70
	340	55	4.00	4.00	231	555.00	770.00	1800	2200	NU238	24.00
	340	92	4.00	4.00	231	830.00	1,290.00	1600	2000	NU2238	39.00
	400	78	5.00	5.00	245	975.00	1,260.00	1400	1700	NU338	52.00
200	310	51	2.10	2.10	229	390.00	580.00	2000	2400	NU1040	14.00
	360	58	4.00	4.00	244	620.00	865.00	1700	2000	NU240	27.00
	360	98	4.00	4.00	244	925.00	1,440.00	1500	1800	NU2240	46.00
	420	80	5.00	5.00	260	975.00	1,270.00	1300	1600	NU340	58.50
	420	138	5.00	5.00	260	1,510.00	2,240.00	1200	1500	NU2340	99.00
220	340	56	3.00	3.00	250	534.00	810.00	1800	2200	NU1044	20.30
	400	65	4.00	4.00	270	836.00	1,220.00	1500	1800	NU244	37.00
	400	108	4.00	4.00	270	1,220.00	1,990.00	1300	1600	NU2244	64.00
	460	88	5.00	5.00	284	1,280.00	1,730.00	1000	1300	NU344	75.10
	460	145	5.00	5.00	284	2,170.00	3,270.00	1000	1300	NU2344	117.00
240	360	56	3.00	3.00	270	512.00	775.00	1700	2000	NU1048	21.50
	440	72	4.00	4.00	295	1,050.00	1,540.00	1300	1600	NU248	49.00
	440	120	4.00	4.00	295	1,490.00	2,450.00	1200	1500	NU2248	87.00
	500	95	5.00	5.00	310	1,530.00	2,120.00	1000	1300	NU348	98.50
	500	155	5.00	5.00	310	2,190.00	3,360.00	950	1200	NU2348	158.50
260	400	65	4.00	4.00	296	688.00	1,090.00	1500	1800	NU1052	30.20
	480	80	5.00	5.00	320	1,220.00	1,800.00	1100	1400	NU252	69.30
	480	130	5.00	5.00	320	1,780.00	2,910.00	1000	1300	NU2252	108.50
	540	102	6.00	6.00	337	1,880.00	2,750.00	850	1050	NU352	129.00

SINGLE ROW



Principal dimensions					Basic load ratings			Speed ratings		Designations	Weight Kg	
mm					KN			Grease	Oil			
d	D	B	rmin	r1min	Fw	Cr	Cor					
	540	165	6.00	6.00	319	3,150.00	4,500.00	850	1050		NU2352	191.50
280	420	65	4.00	4.00	316	704.00	1,140.00	1400	1700		NU1056	32.00
	500	80	5.00	5.00	340	1,100.00	1,750.00	1150	1450		NU256	72.00
	500	130	5.00	5.00	333	2,090.00	3,270.00	1100	1400		NU2256	118.50
	580	108	6.00	6.00	362	1,880.00	2,660.00	850	1000		NU356	150.00
	580	175	6.00	6.00	362	2,560.00	4,250.00	900	1100		NU2356	236.00
300	460	74	4.00	4.00	340	935.00	1,510.00	1200	1500		NU1060	45.00
	540	85	5.00	5.00	364	1,510.00	2,270.00	1000	1300		NU260	89.00
	540	140	5.00	5.00	364	2,080.00	3,450.00	1000	1200		NU2260	148.50
	620	109	7.50	7.50	385	2,310.00	3,300.00	900	1100		NU360	169.50
320	480	74	4.00	4.00	360	957.00	1,580.00	1100	1400		NU1064	49.00
	580	92	5.00	5.00	390	1,530.00	2,450.00	960	1200		NU264	118.00
	580	150	5.00	5.00	390	2,480.00	4,150.00	900	1100		NU2264	183.50
340	520	82	5.00	5.00	385	1,160.00	1,910.00	1000	1300		NU1068	66.00
	620	165	6.00	6.00	416	2,600.00	4,550.00	810	950		NU2268	228.50
360	540	82	5.00	5.00	405	1,080.00	2,000.00	980	1280		NU1072	66.80
	600	192	5.00	5.00	420	3,228.00	6,500.00	900	1000		NU3172	219.00
	560	82	5.00	5.00	425	1,220.00	2,090.00	950	1200		NU1076	72.00
400	600	90	5.00	5.00	450	1,330.00	2,210.00	900	1100		NU1080	94.00
420	620	90	5.00	5.00	470	1,440.00	2,490.00	900	1100		NU1084	99.00
440	650	94	6.00	6.00	493	1,570.00	2,430.00	850	1000		NU1088	103.50
	720	226	6.00	6.00	508	4,783.00	9,823.00	600	750		NU3188	374.00
460	680	100	6.00	6.00	516	1,690.00	2,630.00	800	950		NU1092	112.50
	620	95	4.00	4.00	502	1,521.00	1,603.00	800	950		NUP2992	85.00
480	600	56	3.00	3.00	511	750.00	1,620.00	840	950		NU1896	37.50

SINGLE ROW



Principal dimensions					Basic load ratings			Speed ratings		Designations	Weight Kg
mm					KN			Grease	Oil		
d	D	B	rmin	r1min	Fw	Cr	Cor				
	600	72	3.00	3.00	510	1,050.00	2,400.00	840	950	NJ2896	46.50
	700	100	6.00	6.00	536	1,600.00	2,970.00	720	860	NU1096	130.00
	700	128	6.00	6.00	536	2,600.00	5,250.00	600	720	NU2096	178.00
	790	248	7.50	7.50	547	5,650.00	10,700.00	500	600	NU3196	501.00
500	670	78	5.00	5.00	632	1,160.00	2,350.00	720	880	NU19/500	80.00
	720	100	6.00	6.00	556	1,680.00	3,050.00	720	880	NJ10/500	136.00
	720	128	6.00	6.00	553	285.00	5,900.00	620	720	NU20/500	175.00
530	650	3	3.00		562	1,060.00	2,890.00	900	1100	NF28/530	52.20
	710	106	5.00	5.00	580	1,815.00	4,584.00	400	500	NUP29/530	125.00
	780	145	6.00	6.00	591	3,650.00	7,360.00	550	650	NU20/530	252.00
560	750	85	5.00	5.00	608	1,630.00	3,200.00	650	780	NU19/560	109.10
	750	112	5.00	5.00		2,267.00	5,637.00	650	780	N29/560	138.00
	820	115	6.00	6.00	626	2,250.00	4,200.00	620	720	NU10/560	217.00
	820	150	6.00	6.00	626	3,650.00	7,600.00	500	600	NU20/560	289.00
600	870	155	6.00	6.00	661	4,180.00	8,000.00	590	680	NU20/600	234.00
630	920	170	7.50	7.50	699	4,700.00	9,500.00	480	560	NU20/630	395.00
670	980	180	7.50	7.50	746	5,400.00	11,500.00	430	500	NU20/670	477.00
710	1030	185	7.50	7.50	787	5,800.00	12,000.00	420	490	NU20/710	535.00
750	1090	195	7.50	7.50	832	6,700.00	14,500.00	350	415	NU20/750	634.00
950	1250	175	7.50	7.50	1,024	5,192.00	13,468.00	140	170	NUP29/950	616.00
1250	1500	112	6.00	6.00	1,316	3,300	9,580	300	380	NU18/1250	386.00
1500	1820	140	7.50	7.50	1,585	6,220.00	17,300.00	195	250	NU18/1500	773.00
1700	2060	160	7.50	7.50	1,784	6,950.00	18,500.00	125	155	NU18/1700	1,156.00
1900	2300	175	9.50	9.50	2,204	8,150.00	23,700.00	90	115	NU18/1900	1,480.00