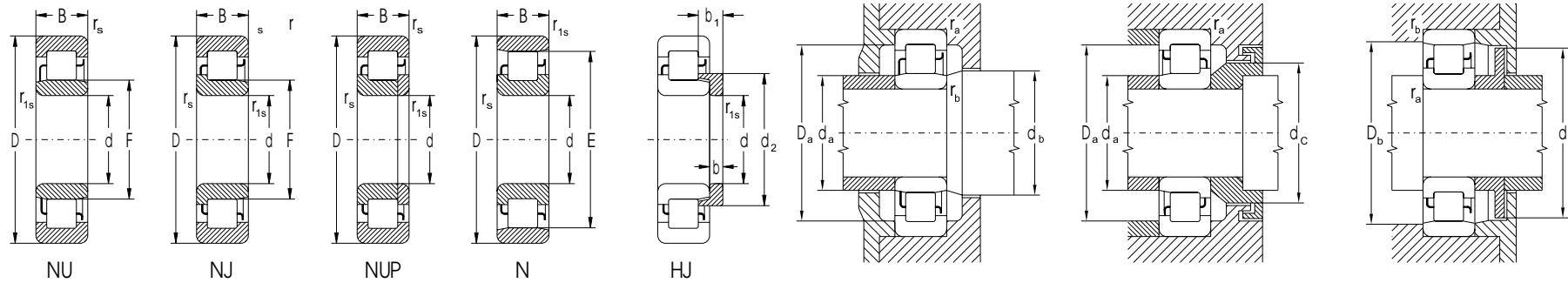


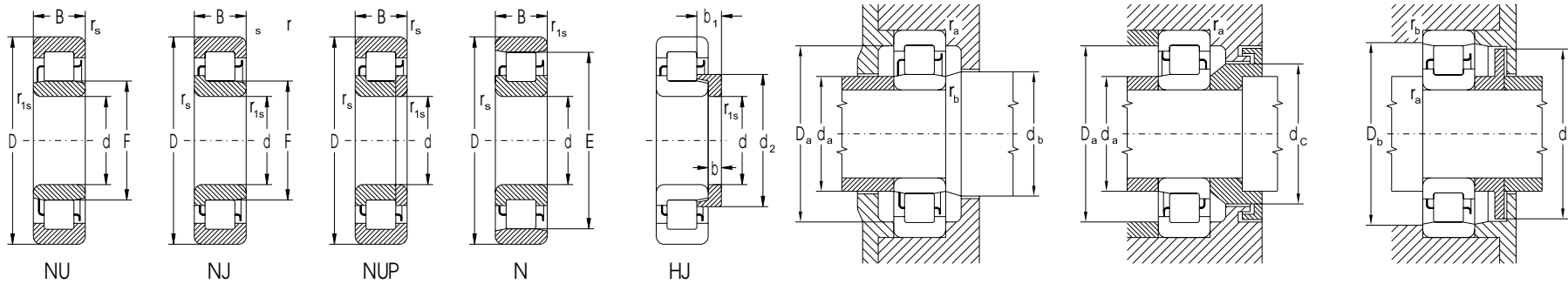
# Single Row Cylindrical Roller Bearings d = 20 to 40 mm



Dimensions										Bearing Designation					Angle Ring HJ	Basic Load Rating		Limiting Speed for Lubrication with		Abutment and Fillet Dimensions										Weight ~ Bearing Angle Ring		
d	D	B	r <sub>s</sub>	r <sub>1s</sub>	F	E	d <sub>2</sub>	b	b <sub>1</sub>	s <sup>1)</sup>	NU	NJ	NUP	N	HJ	C <sub>r</sub>	C <sub>or</sub>	Grease	Oil	d	d <sub>a</sub> min	d <sub>a</sub> max	d <sub>b</sub> min	d <sub>c</sub> min	d <sub>d</sub> max	D <sub>a</sub> max	D <sub>b</sub> min	r <sub>a</sub> max	r <sub>b</sub> max	~	Angle Ring	
mm																kN		min <sup>-1</sup>		mm										kg		
20	47	14.0	1.00	0.6	27.0	40.0	30.0	3	6.75	1.4	<b>NU204</b>	<b>NJ204</b>	<b>NUP204</b>	<b>N204</b>	<b>HJ204</b>	13.900	10.200	14000	17000	20	25	25.5	29	32	39	42	42	1.0	0.6	0.1100	0.01	
25	52	15.0	1.00	0.6	32.0	45.0	35.0	3	7.25	1.5	<b>NU205</b>	<b>NJ205</b>	<b>NUP205</b>	<b>N205</b>	<b>HJ205</b>	15.800	12.600	12600	15000	25	30	30.5	34	37	43	47	47	1.0	0.6	0.1300	0.02	
	52	15.0	1.00	0.6	31.5	46.5	34.9	3	6.00	1.4	<b>NU205E</b>	<b>NJ205E</b>	<b>NUP205E</b>		<b>HJ205E</b>	29.300	25.600	12600	15000		30	30	34	37	-	47	-	1.0	0.6	0.1280	0.02	
	52	15.0	1.00	0.6	31.5	46.5	34.9	3	6.00	1.4	<b>NU205ETNG</b>	<b>NJ205ETNG</b>	<b>NUP205ETNG</b>	<b>N205ETNGHJ205E</b>		29.300	25.600	12600	15000		30	30	34	37	44	47	47	1.0	0.6	0.1280	0.02	
	52	18.0	1.00	0.6	32.0						1.6	<b>NU2205</b>	<b>NJ2205</b>	<b>NUP2205</b>			22.400	19.600	12600	15000		30	30.5	34	37	-	47	-	1.0	0.6	0.1600	
	62	17.0	1.10	1.1	35.0	53.0	39.3	4	8.00	1.4	<b>NU305</b>	<b>NJ305</b>	<b>NUP305</b>	<b>N305</b>	<b>HJ305</b>	27.600	21.500	10000	12000		31	33	37	40	51	55	55	1.0	1.0	0.2400	0.03	
	62	17.0	1.10	1.1	34.0						1.4	<b>NU305EMAS</b>	<b>NJ305EMAS</b>	<b>NUP305EMAS</b>		<b>HJ305E</b>	43.000	36.200	10000	12000		31	32	37	40	-	55	-	1.0	1.0	0.2550	0.03
	62	17.0	1.10	1.1	34.0	54.0	38.3	4	7.00	1.4	<b>NU305ETNG</b>	<b>NJ305ETNG</b>	<b>NUP305ETNG</b>	<b>N305ETNGHJ305E</b>		43.000	36.200	10000	12000		31	32	36	39	52	55	55	1.0	1.0	0.2370	0.03	
	80	21.0	1.50	1.5	38.8						1.4	<b>NU405</b>	<b>NJ405</b>				43.800	34.100	8400	10000		32	38	39	40	-	73	-	1.0	1.0	0.5650	
	30	62	16.0	1.00	0.6	38.5	53.5	42.2	4	8.25	1.5	<b>NU206</b>	<b>NJ206</b>	<b>NUP206</b>	<b>N206</b>	<b>HJ206</b>	21.500	17.800	10600	12600	30	35	37	40	44	52	57	56	1.0	0.6	0.2000	0.03
		62	16.0	1.00	0.6	37.5	55.5	41.4	4	7.00	1.4	<b>NU206ETNG</b>	<b>NJ206ETNG</b>	<b>NUP206ETNG</b>	<b>N206ETNGHJ206E</b>		39.100	35.500	10600	12600		35	37	40	43	54	57	57	1.0	0.6	0.1980	0.03
62		20.0	1.00	0.6	38.5						1.6	<b>NU2206</b>	<b>NJ2206</b>	<b>NUP2206</b>			31.600	29.300	10600	12600		35	37	40	44	-	57	-	1.0	0.6	0.2600	
72		19.0	1.10	1.1	42.0	62.0	46.6	5	9.50	1.4	<b>NU306</b>	<b>NJ306</b>	<b>NUP306</b>	<b>N306</b>	<b>HJ306</b>	36.200	31.000	8900	10600		36	39	44	48	60	65	64	1.0	1.0	0.3600	0.04	
72		19.0	1.10	1.1	40.5						1.4	<b>NU306E</b>	<b>NJ306E</b>	<b>NUP306E</b>		<b>HJ306E</b>	53.100	46.400	8400	10000		36	37.5	43	47	-	65	-	1.0	1.0	0.3570	0.04
72		19.0	1.10	1.1	40.5	62.5	45.1	5	8.50	1.4	<b>NU306ETNG</b>	<b>NJ306ETNG</b>	<b>NUP306ETNG</b>	<b>N306ETNGHJ306E</b>		53.100	46.400	8400	10000		36	37.5	43	47	60	65	64	1.0	1.0	0.3570	0.04	
90		23.0	1.50	1.5	45.0						1.5	<b>NU406</b>	<b>NJ406</b>	<b>NUP406</b>		<b>HJ406</b>	59.600	48.200	7100	8400		39	41	47	53	-	80	-	1.5	1.5	0.7500	0.08
32		65	21.0	1.00	0.6	38.5					1.6	<b>NU22/32ETNG</b>					51.100	50.100	10000	12000		32	35	37	39	43	-	60	-	1.0	1.0	0.3090
35	72	17.0	1.10	0.6	43.8	61.8	48.1	4	8.00	1.5	<b>NU207</b>	<b>NJ207</b>	<b>NUP207</b>	<b>N207</b>	<b>HJ207</b>	31.600	27.100	9400	11000	35	42	42	46	50	60	65	64	1.0	0.6	0.2900	0.04	
	72	17.0	1.10	0.6	44.0					1.4	<b>NU207E</b>	<b>NJ207E</b>	<b>NUP207E</b>		<b>HJ207E</b>	51.100	48.200	8900	10600		42	42	46	50	-	65	-	1.0	0.6	0.2920	0.04	
	72	17.0	1.10	0.6	44.0	64.0	48.3	4	7.00	1.4	<b>NU207ETNG</b>	<b>NJ207ETNG</b>	<b>NUP207ETNG</b>	<b>N207ETNGHJ207E</b>		51.100	48.200	8900	10600		42	42	46	50	62	65	65	1.0	0.6	0.2920	0.04	
	72	23.0	1.10	0.6	43.8						1.6	<b>NU2207</b>	<b>NJ2207</b>	<b>NUP2207</b>			48.200	47.300	9400	11000		42	42	46	50	-	65	-	1.0	0.6	0.4000	
	72	23.0	1.10	0.6	44.0						1.6	<b>NU2207ETNG</b>	<b>NJ2207ETNG</b>	<b>NUP2207ETNG</b>			64.300	64.300	8900	10600		42	42	46	50	-	65	-	1.0	0.6	0.3850	
	80	21.0	1.50	1.1	46.2	68.2	51.2	6	11.00	1.4	<b>NU307</b>	<b>NJ307</b>	<b>NUP307</b>	<b>N307</b>	<b>HJ307</b>	43.000	36.200	7900	9400		42	44	48	53	66	71	71	1.5	1.0	0.4800	0.06	
	80	21.0	1.50	1.1	46.2						1.4	<b>NU307E</b>	<b>NJ307E</b>	<b>NUP307E</b>		<b>HJ307E</b>	66.800	61.900	7500	8900		42	44	48	53	-	71	-	1.5	1.0	0.4660	0.06
	80	31.0	1.50	1.1	46.2						2.7	<b>NU2307EMAS</b>	<b>NJ2307EMAS</b>	<b>NUP2307EMAS</b>			92.600	92.600	7100	8400		42	44	48	53	-	71	-	1.5	1.0	0.7510	
	100	25.0	1.50	1.5	53.0	83.0	59.9	8	13.00	1.5	<b>NU407</b>	<b>NJ407</b>	<b>NUP407</b>	<b>N407</b>	<b>HJ407</b>	75.000	64.300	6300	7500		44	52	55	62	81	90	86	1.5	1.5	1.0000	0.13	
	40	80	18.0	1.10	1.1	50.0	70.0	54.6	5	9.00	1.5	<b>NU208</b>	<b>NJ208</b>	<b>NUP208</b>	<b>N208</b>	<b>HJ208</b>	42.200	37.600	7900	9400	40	47	48	52	56	68	73	72	1.0	1.0	0.3700	0.05
80		18.0	1.10	1.1	49.5						1.4	<b>NU208E</b>	<b>NJ208E</b>	<b>NUP208E</b>		<b>HJ208E</b>	54.100	50.100	7900	9400		47	47	51	56	-	73	-	1.0	1.0	0.3800	0.05
80		23.0	1.10	1.1	50.0						1.6	<b>NU2208</b>	<b>NJ2208E</b>	<b>NUP2208E</b>			57.300	56.200	7900	9400		47	48	52	56	-	73	-	1.0	1.0	0.7380	
80		30.16	1.00	1.5	49.3						3.0	<b>NU5208M</b>					57.000	98.100	7500	8900		48	-	51.5	-	-	72	-	1.5	1.5	0.7380	
90		23.0	1.50	1.5	53.5	77.5	59.0	7	12.50	1.4	<b>NU308</b>	<b>NJ308</b>	<b>NUP308</b>	<b>N308</b>	<b>HJ308</b>	55.200	48.200	7100	8400		47	51	55	61	75	81	81	1.5	1.5	0.6600	0.09	
90		23.0	1.50	1.5	52.0						1.4	<b>NU308E</b>	<b>NJ308E</b>	<b>NUP308E</b>		<b>HJ308E</b>	84.100	77.900	6700	7900		47	50	54	60	-	81	-	1.5	1.5	0.6700	0.08
90		23.0	1.50	1.5	52.0	80.0	57.7	7	11.00	1.4	<b>NU308ETNG</b>	<b>NJ308ETNG</b>	<b>NUP308ETNG</b>	<b>N308ETNGHJ308E</b>		84.100	77.900	6700	7900		47	50	54	60	77	81	81	1.5	1.5	0.8290	0.08	
90		33.0	1.50	1.5	52.0						2.9	<b>NU2308EMAS</b>	<b>NJ2308EMAS</b>	<b>NUP2308EMAS</b>			119.000	123.000	6300	7500		47	50	54	60	-	81	-	1.5	1.5	1.0000	
110		27.0	2.00	2.0	58.0	92.0	65.8	8	13.00	1.5	<b>NU408</b>	<b>NJ408</b>	<b>NUP408</b>	<b>N408</b>	<b>HJ408</b>	92.600	79.400	5600	6700		50	55	60	68	90	97	95	2.0	2.0	1.3000	0.14	

<sup>1)</sup> Permissible axial displacement out of central position

# Single Row Cylindrical Roller Bearings d = 45 to 60 mm

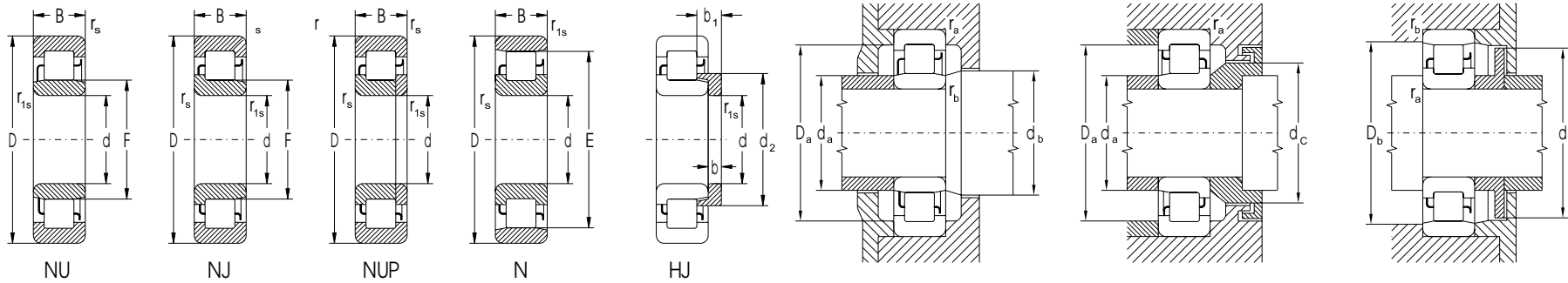


Dimensions						Bearing Designation					Angle Ring HJ	Basic Load Rating Dynamic $C_r$	Limiting Speed for Lubrication with Grease Oil	Abutment and Fillet Dimensions										Weight ~ Bearing Angle Ring								
d	D	B	$r_s$	$r_{1s}$	F	E	$d_2$	b	$b_1$	$s^1$	NU	NJ	NUP	N	HJ	$C_r$	min <sup>-1</sup>	Grease	Oil	d	$d_a$ min	$d_a$ max	$d_b$ min	$d_c$ min	$d_d$ max	$D_a$ max	$D_b$ min	$r_a$ max	$r_b$ max	~	Angle Ring	
mm			min	min			max									kN				mm												kg
45	85	19.00	1.1	1.1	55.00	75.0	59.6	5	9.50	1.5	<b>NU209</b>	<b>NJ209</b>	<b>NUP209</b>	<b>N209</b>	<b>HJ209</b>	43.800	41.100	7500	8900	45	52	53	57	61	74	78	78	1.0	1.0	0.4300	0.05	
	85	19.00	1.1	1.1	54.50		59.1	5	8.50	1.4	<b>NU209E</b>	<b>NJ209E</b>	<b>NUP209E</b>		<b>HJ209E</b>	61.900	60.700	7500	8900	52	53	57	61	-	78	-	1.0	1.0	0.4500	0.05		
	85	19.00	1.1	1.1	54.50	76.5	59.1	5	8.50	1.4	<b>NU209ETNG</b>	<b>NJ209ETNG</b>	<b>NUP209ETNG</b>	<b>N209ETNG</b>	<b>HJ209E</b>	61.900	60.700	7500	8900	52	53	57	61	74	78	78	1.0	1.0	0.4250	0.05		
	85	23.00	1.1	1.1	54.50					1.6	<b>NU2209E</b>	<b>NJ2209E</b>	<b>NUP2209E</b>			76.400	79.400	7100	8400	52	53	57	61	-	78	-	1.0	1.0	0.5500			
	85	23.00	1.1	1.1	54.50					1.6	<b>NU2209ETNG</b>		<b>NJ2209ETNG</b>	<b>NUP2209ETNG</b>		<b>NUP2209ETNG</b>	76.400	79.400	7100	8400	53	53	57	61	-	76	-	1.5	1.0	0.5200		
	85	30.16	1.0	1.5	55.52					4.0	<b>NU5209M</b>						89.100	117.700	6700	7900	53	-	57	-	-	76	-	1.5	1.0	0.7970		
	100	25.00	1.5	1.5	58.50	86.5	65.0	7	12.50	1.4	<b>NU309</b>	<b>NJ309</b>	<b>NUP309</b>	<b>N309</b>	<b>HJ309</b>	70.800	61.900	6300	7500	52	56	60	66	84	91	90	1.5	1.5	0.8700	0.10		
	100	25.00	1.5	1.5	58.50					11.50	1.4	<b>NU309E</b>	<b>NJ309E</b>	<b>NUP309E</b>		<b>HJ309E</b>	102.000	98.000	6000	7100	52	56	60	66	-	91	-	1.5	1.5	0.8900	0.10	
	100	36.00	1.5	1.5	58.50					2.9	<b>NU2309E</b>	<b>NJ2309E</b>	<b>NUP2309E</b>			139.000	147.000	5600	6700	52	56	60	66	-	91	-	1.5	1.5	1.3600			
	120	29.00	2.0	2.0	64.50	100.5	72.8	8	13.50	1.5	<b>NU409</b>	<b>NJ409</b>	<b>NUP409</b>	<b>N409</b>	<b>HJ409</b>	104.000	90.900	5300	6300	55	62.7	66	75	99	107	103	2.0	2.0	1.6500	0.18		
	50	90	20.00	1.1	1.1	59.50		64.6	5	9.00	1.6	<b>NU210E</b>	<b>NJ210E</b>	<b>NUP210E</b>		<b>HJ210E</b>	64.300	65.600	6700	7900	50	57	57	61	66	-	83	-	1.0	1.0	0.4900	0.06
		90	23.00	1.1	1.1	60.40					1.6	<b>NU2210</b>	<b>NJ2210</b>	<b>NUP2210</b>			63.100	66.800	7100	8400	57	58	62	66	-	83	-	1.0	1.0	0.5800		
90		23.00	1.1	1.1	59.50					1.6	<b>NU2210E</b>	<b>NJ2210E</b>	<b>NUP2210E</b>			84.100	90.900	6700	7900	57	57	61	66	-	83	-	1.0	1.0	0.5900			
90		30.16	1.0	1.5	60.46					4.5	<b>NU5210M</b>					92.600	128.000	6300	7500	58	-	62	-	-	81	-	1.5	1.0	0.8770			
110		27.00	2.0	2.0	65.00	95.0	71.9	8	14.00	1.5	<b>NU310</b>	<b>NJ310</b>	<b>NUP310</b>	<b>N310</b>	<b>HJ310</b>	87.400	79.400	5600	6700	60	63	67	74	93	100	99	2.0	2.0	1.1500	0.15		
110		27.00	2.0	2.0	65.00	97.0	71.4	8	13.00	1.5	<b>NU310ETNG</b>	<b>NJ310ETNG</b>	<b>NUP310ETNG</b>	<b>N310ETNG</b>	<b>HJ310E</b>	117.000	114.000	5300	6300	60	63	67	74	95	100	100	2.0	2.0	1.1300	0.14		
110		40.00	2.0	2.0	65.00					3.0	<b>NU2310</b>	<b>NJ2310</b>	<b>NUP2310</b>			123.000	126.000	5600	6700	60	63	67	74	-	100	-	2.0	2.0	0.1700			
110		40.00	2.0	2.0	65.00					3.0	<b>NU2310EMAS</b>		<b>NJ2310EMAS</b>	<b>NUP2310EMAS</b>		<b>NUP2310EMAS</b>	168.000	178.000	5000	6000	60	63	67	74	-	100	-	2.0	2.0	1.8300		
130		31.00	2.1	2.1	70.80	110.8	80.0	9	14.50	2.0	<b>NU410</b>	<b>NJ410</b>	<b>NUP410</b>	<b>N410</b>	<b>HJ410</b>	139.000	114.000	4700	5600	63	68	73	82	109	116	114	2.0	2.0	2.0000	0.23		
55		100	21.00	1.5	1.1	66.50	88.5	71.5	6	11.00	1.6	<b>NU211</b>	<b>NJ211</b>	<b>NUP211</b>	<b>N211</b>	<b>HJ211</b>	56.200	56.200	6300	7500	55	62	65	68	73	86	91	91	1.5	1.0	0.6400	0.08
		100	21.00	1.5	1.1	66.00					9.50	1.6	<b>NU211E</b>	<b>NJ211E</b>	<b>NUP211E</b>		<b>HJ211E</b>	85.800	90.900	6300	7500	62	64.5	68	73	-	91	-	1.5	1.0	0.6600	0.08
		100	25.00	1.5	1.1	66.50					1.6	<b>NU2211</b>	<b>NJ2211</b>	<b>NUP2211</b>			76.400	82.500	6300	7500	62	65	68	73	-	91	-	1.5	1.0	0.7800		
	100	33.34	1.5	2.1	66.90					4.5	<b>NU5211M</b>					119.000	171.000	5600	6700	64	-	69	-	-	90	-	2.0	1.5	1.2000			
	120	29.00	2.0	2.0	70.50	104.5	78.4	9	15.00	1.5	<b>NU311</b>	<b>NJ311</b>	<b>NUP311</b>	<b>N311</b>	<b>HJ311</b>	108.000	100.000	5300	6300	65	67	72	80	102	110	108	2.0	2.0	1.4500	0.19		
	120	29.00	2.0	2.0	70.50					14.00	1.5	<b>NU311E</b>	<b>NJ311E</b>	<b>NUP311E</b>		<b>HJ311E</b>	136.000	128.000	4700	5600	65	67	72	80	-	110	-	2.0	2.0	1.3800	0.18	
	140	33.00	2.1	2.1	77.20	117.2	86.4	10	16.60	3.0	<b>NU411</b>	<b>NJ411</b>	<b>NUP411</b>	<b>N411</b>	<b>HJ411</b>	139.000	128.000	4500	5300	68	71	79	88	115	126	120	2.0	2.0	2.5000	0.30		
	60	110	22.00	1.5	1.5	73.50	97.5	79.0	6	11.00	1.6	<b>NU212</b>	<b>NJ212</b>	<b>NUP212</b>	<b>N212</b>	<b>HJ212</b>	66.800	68.100	5600	6700	60	67	71	75	80	95	101	101	1.5	1.5	0.8200	0.11
		110	28.00	1.5	1.5	73.50					1.6	<b>NU2212</b>	<b>NJ2212</b>	<b>NUP2212</b>			98.100	112.000	5600	6700	69	69.5	74	79	-	101	-	1.5	1.5	1.0500		
		110	36.50	1.5	2.0	72.38					4.5	<b>NU5212M</b>					150.000	211.000	5300	6300	69	-	74	-	-	99	-	2.0	1.5	1.5900		
		130	31.00	2.1	2.1	77.00	113.0	85.3	9	15.50	1.5	<b>NU312</b>	<b>NJ312</b>	<b>NUP312</b>	<b>N312</b>	<b>HJ312</b>	121.000	114.000	4700	5600	72	75	79	87	110	118	117	2.0	2.0	1.8500	0.22	
		130	46.00	2.1	2.1	77.00					4.5	<b>NU2312</b>	<b>NJ2312</b>	<b>NUP2312</b>			168.000	174.000	4700	5600	72	75	79	87	-	118	-	2.0	2.0	2.7000		
150		35.00	2.1	2.1	83.00	127.0	93.1	10	16.50	2.0	<b>NU412</b>	<b>NJ412</b>	<b>NUP412</b>	<b>N412</b>	<b>HJ412</b>	168.000	158.000	4200	5000	73	77	85	95	124	136	130	2.0	2.0	3.0000	0.34		

<sup>1)</sup> Permissible axial displacement out of central position

# Single Row Cylindrical Roller Bearings

d = 65 to 80 mm

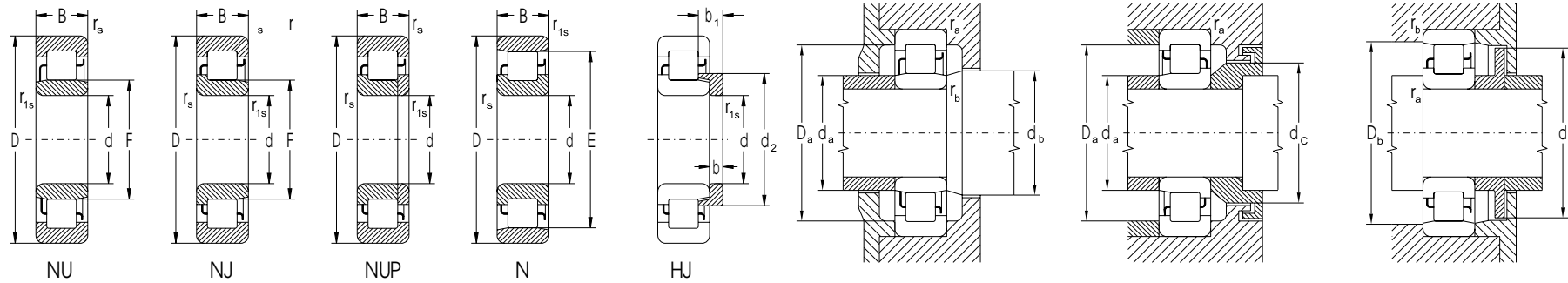


Dimensions										Bearing Designation				Angle Ring HJ	Basic Load Rating		Limiting Speed for Lubrication with		Abutment and Fillet Dimensions							Weight ~ Bearing Angle Ring					
d	D	B	r <sub>s</sub>	r <sub>1s</sub>	F	E	d <sub>2</sub>	b	b <sub>1</sub>	s <sup>1)</sup>	NU	NJ	NUP	N		C <sub>r</sub>	C <sub>0r</sub>	Grease	Oil	d	d <sub>a</sub> min	d <sub>a</sub> max	d <sub>b</sub> min	d <sub>c</sub> min	d <sub>d</sub> max	D <sub>a</sub> max	D <sub>b</sub> min	r <sub>a</sub> max	r <sub>b</sub> max		Angle Ring
mm																kN	min <sup>-1</sup>	mm							kg						
65	120	23.00	1.5	1.5	79.600	105.6	85.6	6	11.00	1.6	<b>NU213</b>	<b>NJ213</b>	<b>NUP213</b>	<b>N213</b>	<b>HJ213</b>	79.40	82.500	5300	6300	65	72	77	81	87	103	111	110	1.5	1.5	1.0500	0.13
	120	31.00	1.5	1.5	79.600					1.6	<b>NU2213</b>	<b>NJ2213</b>	<b>NUP2213</b>			117.00	136.000	5300	6300	65	72	77	81	87	-	111	-	1.5	1.5	1.4500	
	120	38.10	1.7	1.7	80.420					4.5	<b>NU5213M</b>					139.00	196.000	4700	5600	65	77	-	83	-	-	108	-	1.5	1.5	1.88	
	140	33.00	2.1	2.1	83.500	121.5	92.2	10	17.00	1.5	<b>NU313</b>	<b>NJ313</b>	<b>NUP313</b>	<b>N313</b>	<b>HJ313</b>	131.00	128.000	4500	5300	65	76	78	85	94	119	128	126	2.0	2.0	2.2500	0.29
	140	33.00	2.1	2.1	82.500	90.7	10	15.50	1.5		<b>NU313E</b>	<b>NJ313E</b>	<b>NUP313E</b>		<b>HJ313E</b>	181.00	178.000	4200	5000	65	76	77	84	93	-	128	-	2.0	2.0	2.3500	0.27
	140	48.00	2.1	2.1	83.500					4.5	<b>NU2313</b>	<b>NJ2313</b>	<b>NUP2313</b>			192.00	203.000	4500	5300	65	76	78	85	94	-	128	-	2.0	2.0	3.2500	
	160	37.00	2.1	2.1	89.300	99.9	11	18.00	2.0		<b>NU413MAS</b>	<b>NJ413MAS</b>	<b>NUP413MAS</b>		<b>HJ413</b>	181.00	174.000	3800	4500	65	78	83	91	101	-	146	-	2.0	2.0	3.6000	0.43
70	125	24.00	1.5	1.5	84.500	110.5	90.5	7	12.50	1.6	<b>NU214</b>	<b>NJ214</b>	<b>NUP214</b>	<b>N214</b>	<b>HJ214</b>	79.40	82.500	5600	6700	70	77	82	86	92	108	116	115	1.5	1.5	1.1500	0.16
	125	31.00	1.5	1.5	84.500					1.6	<b>NU2214</b>	<b>NJ2214</b>	<b>NUP2214</b>			117.00	139.000	5000	6000	70	77	82	86	92	-	116	-	1.5	1.5	1.5000	
	125	39.69	1.5	2.2	84.840					4.5	<b>NU5214M</b>					178.00	261.000	4700	5600	70	81.5	-	87	-	-	112	-	2.0	1.5	2.2200	
	150	35.00	2.1	2.1	90.000	130.0	99.2	10	17.50	1.5	<b>NU314</b>	<b>NJ314</b>	<b>NUP314</b>	<b>N314</b>	<b>HJ314</b>	147.00	144.000	4200	5000	70	81	85	92	101	127	138	135	2.0	2.0	2.7500	0.34
	150	51.00	2.1	2.1	90.000					4.1	<b>NU2314</b>	<b>NJ2314</b>	<b>NUP2314</b>			215.00	233.000	4200	5000	70	81	85	92	101	-	138	-	2.0	2.0	5.2500	
	150	51.00	2.1	2.1	89.000					4.1	<b>NU2314EMAS</b>	<b>NJ2314EMAS</b>	<b>NUP2314EMAS</b>			282.00	310.000	3800	4500	70	81	84	91	100	-	138	-	2.0	2.0	4.2100	
	180	42.00	3.0	3.0	100.000	152.0	112.0	12	20.00	2.0	<b>NU414</b>	<b>NJ414</b>	<b>NUP414</b>	<b>N414</b>	<b>HJ414</b>	224.00	215.000	3300	4000	70	85	93	102	114	149	164	156	2.5	2.5	5.2500	0.61
75	130	25.00	1.5	1.5	88.500	116.5	94.9	7	12.50	1.6	<b>NU215</b>	<b>NJ215</b>	<b>NUP215</b>	<b>N215</b>	<b>HJ215</b>	96.20	96.200	4700	5600	75	82	85	90	96	114	121	120	1.5	1.5	1.2500	0.17
	130	25.00	1.5	1.5	88.500	94.6	7	11.00	1.6		<b>NU215E</b>	<b>NJ215E</b>	<b>NUP215E</b>		<b>HJ215E</b>	131.00	147.000	4500	5300	75	82	85	90	96	-	121	-	1.5	1.5	1.3000	0.16
	130	31.00	1.5	1.5	88.500					2.1	<b>NU2215E</b>	<b>NJ2215E</b>	<b>NUP2215E</b>			162.00	196.000	4500	5300	75	82	85	90	96	-	121	-	1.5	1.5	1.6500	
	130	41.28	1.5	1.5	89.014					4.5	<b>NU5215M</b>					196.00	299.000	4500	5300	75	85.5	-	91	-	-	117	-	2.0	1.5	2.4100	
	160	37.00	2.1	2.1	95.500	139.5	105.6	11	18.50	1.5	<b>NU315</b>	<b>NJ315</b>	<b>NUP315</b>	<b>N315</b>	<b>HJ315</b>	178.00	178.000	3800	4500	75	86	93	97	107	137	148	145	2.0	2.0	3.2500	0.40
	160	55.00	2.1	2.1	95.500					4.5	<b>NU2315</b>	<b>NJ2315</b>	<b>NUP2315</b>			266.00	287.000	3800	4500	75	86	93	97	107	-	148	-	2.0	2.0	4.8500	
	190	45.00	3.0	3.0	104.500	160.5	117.0	13	21.50	2.0	<b>NU415</b>	<b>NJ415</b>	<b>NUP415</b>	<b>N415</b>	<b>HJ415</b>	261.00	251.000	3200	3800	75	90	98	107	119	158	174	164	2.5	2.5	6.2500	0.80
80	125	22.00	1.1	1.0	91.500					1.2	<b>NU1016</b>					66.80	76.400	5000	6000	80	85	90	94	-	-	118	-	1.0	1.0	0.9900	
	140	26.00	2.0	2.0	95.300	125.3	102.2	8	13.50	2.0	<b>NU216</b>	<b>NJ216</b>	<b>NUP216</b>	<b>N216</b>	<b>HJ216</b>	106.00	114.000	4500	5300	80	90	92	97	104	125	130	130	2.0	2.0	1.5000	0.21
	140	33.00	2.0	2.0	95.300					2.5	<b>NU2216</b>	<b>NJ2216</b>	<b>NUP2216</b>			147.00	178.000	4500	5300	80	90	92	97	104	-	130	-	2.0	2.0	1.9500	
	140	33.00	2.0	2.0	95.300					2.5	<b>NU2216E</b>	<b>NJ2216E</b>	<b>NUP2216E</b>			196.00	246.000	4200	5000	80	90	92	97	104	-	130	-	2.0	2.0	2.0500	
	140	44.45	2.1	2.1	95.280					5.0	<b>NU5216M</b>					185.00	282.000	4200	5000	80	91.5	-	98	-	-	126	-	2.0	2.0	2.9100	
	170	39.00	2.1	2.1	103.000	147.0	113.1	11	19.50	1.5	<b>NU316</b>	<b>NJ316</b>	<b>NUP316</b>	<b>N316</b>	<b>HJ316</b>	192.00	192.000	3500	4200	80	99	97	105	116	144	158	153	2.0	2.0	3.9000	0.49
	200	48.00	3.0	3.0	110.000	170.0	123.8	13	22.00	2.0	<b>NU416M</b>	<b>NJ416M</b>	<b>NUP416M</b>	<b>N416M</b>	<b>HJ416</b>	299.00	293.000	3000	3500	80	95	105	112	125	167	184	174	2.5	2.5	7.3000	0.80

<sup>1)</sup> Permissible axial displacement out of central position

# Single Row Cylindrical Roller Bearings

d = 85 to 105 mm

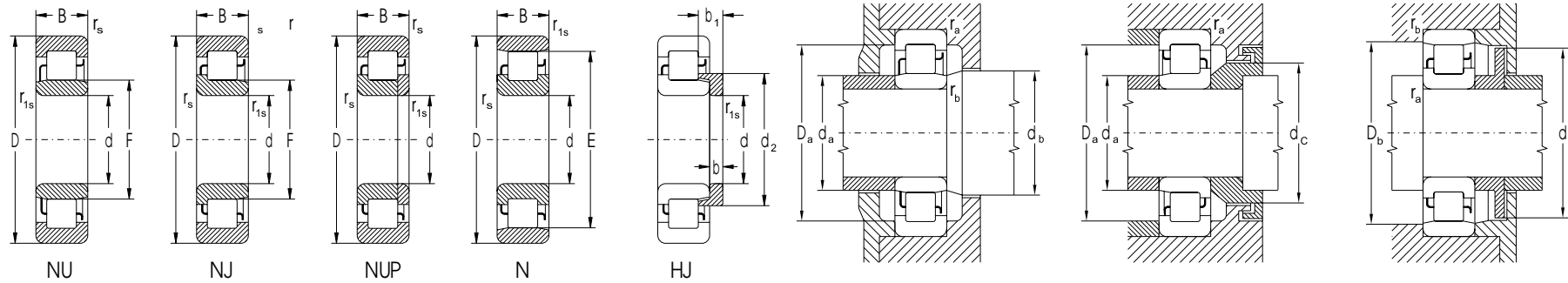


Dimensions										Bearing Designation				Angle Ring HJ	Basic Load Rating		Limiting Speed for Lubrication with		Abutment and Fillet Dimensions										Weight ~ Bearing Angle Ring			
d	D	B	r <sub>s</sub>	r <sub>1s</sub>	F	E	d <sub>2</sub>	b	b <sub>1</sub>	s <sup>1)</sup>	NU	NJ	NUP	N	HJ	C <sub>r</sub>	C <sub>0r</sub>	Grease	Oil	d	d <sub>a</sub> min	d <sub>a</sub> max	d <sub>b</sub> min	d <sub>c</sub> min	d <sub>d</sub> max	D <sub>a</sub> max	D <sub>b</sub> min	r <sub>a</sub> min	r <sub>b</sub> max	r <sub>b</sub> max	~	Angle Ring
mm																kN	min <sup>-1</sup>	mm										kg				
85	150	28.0	2.0	2.0	101.800	133.8	109.2	8	14.00	2.0	<b>NU217</b>	<b>NJ217</b>	<b>NUP217</b>	<b>N217</b>	<b>HJ217</b>	121.000	131.000	4200	5000	85	95	99	104	111	131	140	138	2.0	2.0	1.9000	0.25	
	150	36.0	2.0	2.0	100.500					2.0	<b>NU2217E</b>	<b>NJ2217E</b>	<b>NUP2217E</b>			220.000	261.000	3800	4500		95	98	103	110	-	140	-	2.0	2.0	2.5200		
	150	49.21	2.1	2.1	102.000						5.5	<b>NU5217M</b>					211.000	316.000	3800	4500		98	-	105	-	-	135	-	2.0	2.0	3.6900	
	180	41.0	3.0	3.0	108.000	156.0	119.0	12	20.50	2.0	<b>NU317</b>	<b>NJ317</b>	<b>NUP317</b>	<b>N317</b>	<b>HJ317</b>	215.000	215.000	3300	4000		98	103	110	121	174	166	162	2.5	2.5	4.5000	0.57	
	210	52.0	4.0	4.0	113.000						2.5	<b>NU417</b>	<b>NJ417</b>	<b>NUP417</b>		<b>HJ417</b>	362.000	362.000	3000	3500		105	108	115	129	-	190	-	3.0	3.0	8.7000	0.89
90	160	30.0	2.0	2.0	107.000	143.0	115.3	9	15.00	2.0	<b>NU218</b>	<b>NJ218</b>	<b>NUP218</b>	<b>N218</b>	<b>HJ218</b>	147.000	158.000	4000	4700	90	100	105	109	117	140	150	147	2.0	2.0	2.3000	0.31	
	160	52.4	2.1	3.0	107.218					6.0	<b>NU5218M</b>					237.000	355.000	3500	4200		103	-	110	-	-	144	-	2.5	2.0	4.4800		
	190	43.0	3.0	3.0	115.000	165.0	126.5	12	21.00	2.0	<b>NU318</b>	<b>NJ318</b>	<b>NUP318</b>	<b>N318</b>	<b>HJ318</b>	233.000	242.000	3200	3800		103	111	117	128	162	176	172	2.5	2.5	5.4000	0.65	
	190	43.0	3.0	3.0	113.500						2.0	<b>NU318E</b>	<b>NJ318E</b>	<b>NUP318E</b>		<b>HJ318E</b>	316.000	329.000	3000	3500		103	110	116	127	-	176	-	2.5	2.5	5.5000	0.60
	225	54.0	4.0	4.0	123.500						2.5	<b>NU418</b>	<b>NJ418</b>	<b>NUP418</b>		<b>HJ418</b>	391.000	406.000	2700	3200		110	117	125	140	-	205	-	3.0	3.0	11.7000	1.05
225	54.0	4.0	4.0	123.500						2.5	<b>NU418MAS</b>	<b>NJ418MAS</b>	<b>NUP418MAS</b>		<b>HJ418</b>	391.000	406.000	2700	3200		110	117	125	140	-	205	-	3.0	3.0	11.7000	1.05	
95	170	32.0	2.1	2.1	113.500	151.5	122.2	9	15.50	2.0	<b>NU219</b>	<b>NJ219</b>	<b>NUP219</b>	<b>N219</b>	<b>HJ219</b>	162.000	181.000	3800	4500	95	107	111	116	124	149	158	155	2.0	2.0	2.8000	0.35	
	170	43.0	2.1	2.1	113.500					3.0	<b>NU2219</b>	<b>NJ2219</b>	<b>NUP2219</b>			233.000	282.000	3800	4500		107	111	116	124	-	158	-	2.0	2.0	3.8500		
	170	55.56	2.5	3.0	113.520					6.0	<b>NU5219M</b>					335.000	511.000	3300	4000		110	-	117	-	-	153	-	2.5	2.0	5.6500		
	200	45.0	3.0	3.0	121.500	173.5				2.0	<b>NU319</b>	<b>NJ319</b>	<b>NUP319</b>	<b>N319</b>	<b>HJ319</b>	256.000	266.000	3200	3800		109	119	124	135	170	186	178	2.5	2.5	6.2000		
	200	45.0	3.0	3.0	121.500					1.9	<b>NU319EM</b>	<b>NJ319EM</b>	<b>NUP319EM</b>			329.000	362.000	2800	3300		109	119	124	135	-	186	-	2.5	2.5	6.5000		
240	55.0	4.0	4.0	133.500					2.5	<b>NU419M</b>	<b>NJ419M</b>	<b>NUP419M</b>			430.000	447.000	2500	3000		115	125	136	151	-	220	-	3.0	3.0	13.5000			
100	180	34.0	2.1	2.1	120.000	160.0	129.2	10	17.00	2.0	<b>NU220</b>	<b>NJ220</b>	<b>NUP220</b>	<b>N220</b>	<b>HJ220</b>	178.000	203.000	3500	4200	100	112	117	122	131	157	168	165	2.0	2.0	3.4000	0.45	
	180	46.0	2.1	2.1	120.000					3.0	<b>NU2220</b>	<b>NJ2220</b>	<b>NUP2220</b>			261.000	322.000	3500	4200		112	117	122	131	-	168	-	2.0	2.0	4.6500		
	180	60.32	2.1	2.1	121.005					7.0	<b>NU5220M</b>					304.000	473.000	3200	3800		116.5	-	124	-	-	162	-	2.0	2.0	6.4900		
	215	47.0	3.0	3.0	129.500	185.5	142.4	13	22.50	2.0	<b>NU320</b>	<b>NJ320</b>	<b>NUP320</b>	<b>N320</b>	<b>HJ320</b>	299.000	310.000	2800	3300		113	125	132	145	182	201	190	2.0	2.0	7.7000	0.91	
	215	73.0	3.0	3.0	127.500					4.9	<b>NU2320EMAS</b>	<b>NJ2320EMAS</b>	<b>NUP2320EMAS</b>			596.000	694.000	2500	3000		113	123	130	144	-	201	-	2.5	2.5	12.5000		
250	58.0	4.0	4.0	139.000					2.5	<b>NU420</b>	<b>NJ420</b>	<b>NUP420</b>		<b>HJ420</b>	473.000	501.000	2400	2800		120	130	141	158	-	230	-	3.0	3.0	14.0000	1.55		
105	190	36.0	2.1	2.1	126.800	168.8	136.5	10	17.50	2.0	<b>NU221</b>	<b>NJ221</b>	<b>NUP221</b>	<b>N221</b>	<b>HJ221</b>	200.000	224.000	3300	4000	105	117	122	129	138	166	178	175	2.0	2.0	4.0000	0.51	
	190	65.1	2.1	2.1	126.520					7.0	<b>NU5221M</b>					362.000	573.000	3000	3500		121.5	-	130	-	-	171	-	2.0	2.0	7.9400		
	225	49.0	3.0	3.0	135.000	195.0	148.8	13	22.50	4.5	<b>NU321</b>	<b>NJ321</b>	<b>NUP321</b>	<b>N321</b>	<b>HJ321</b>	341.000	362.000	2700	3200		119	132	137	150	192	211	199	2.5	2.5	8.7500	1.00	
	260	60.0	4.0	4.0	144.500					2.5	<b>NU421</b>	<b>NJ421</b>	<b>NUP421</b>		<b>HJ421</b>	531.000	562.000	2200	2700		125	135	147	164	-	240	-	3.0	3.0	19.0000	1.65	

<sup>1)</sup> Permissible axial displacement out of central position

# Single Row Cylindrical Roller Bearings

d = 110 to 150 mm

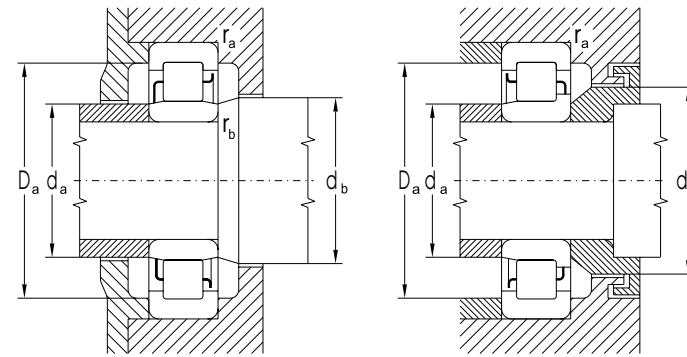
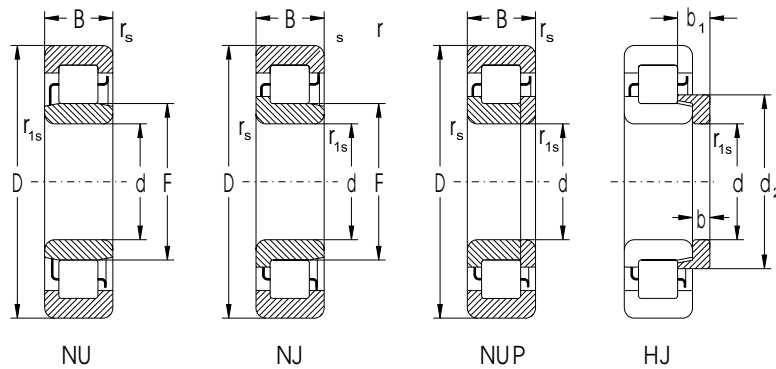


Dimensions										Bearing Designation					Basic Load Rating		Limiting Speed for Lubrication with		Abutment and Fillet Dimensions										Weight		
d	D	B	r <sub>s</sub>	r <sub>1s</sub>	F	E	d <sub>2</sub>	b	b <sub>1</sub>	s <sup>1)</sup>	NU	NJ	NUP	N	Angle Ring HJ	C <sub>r</sub>	C <sub>0r</sub>	Grease	Oil	d	d <sub>a</sub> min	d <sub>a</sub> max	d <sub>b</sub> min	d <sub>c</sub> min	d <sub>d</sub> max	D <sub>a</sub> max	D <sub>b</sub> min	r <sub>a</sub> max	r <sub>b</sub> max	~	Bearing Angle Ring
mm											kN		min <sup>-1</sup>		mm										kg						
110	200	38.0	2.1	2.1	132.500	178.5	143.1	11	18.50	2.5	<b>NU222</b>	<b>NJ222</b>	<b>NUP222</b>	<b>N222</b>	<b>HJ222</b>	237.000	271.000	3200	3800	110	122	125	135	145	175	188	182	2.0	2.0	4.6500	0.62
	200	53.0	2.1	2.1	132.500					5.0	<b>NU2222</b>	<b>NJ2222</b>	<b>NUP2222</b>			341.000	422.000	3200	3800		122	125	135	145	-	188	-	2.0	2.0	6.9500	
	200	69.85	2.1	4.0	132.951					7.0	<b>NU5222M</b>					464.000	736.000	3000	3500		128	-	137	-	-	180	-	3.0	2.0	10.0000	
	240	50.0	3.0	3.0	143.000	207.0	157.5	14	23.00	2.7	<b>NU322</b>	<b>NJ322</b>	<b>NUP322</b>	<b>N322</b>	<b>HJ322</b>	391.000	414.000	2500	3000		124	135	145	160	204	226	211	2.5	2.5	10.5000	1.17
	240	60.0	3.0	3.0	143.000					2.9	<b>NU322E</b>	<b>NJ322E</b>	<b>NUP322E</b>			447.000	492.000	2400	2800		124	135	145	160	-	226	-	2.5	2.5	11.0000	
120	280	65.0	4.0	4.0	155.000		173.4	17	29.50	2.7	<b>NU422</b>	<b>NJ422</b>	<b>NUP422</b>		<b>HJ422</b>	584.000	631.000	2100	2500		130	140	157	175	-	260	-	3.0	3.0	20.0000	2.16
	180	28.0	2.0	1.1	135.000					2.0	<b>NU1024</b>					131.000	168.000	3300	4000	120	128	131	138	-	-	171	-	2.0	1.0	2.4500	
	215	40.0	2.1	2.1	143.500	191.5	154.5	11	19.00	2.5	<b>NU224</b>	<b>NJ224</b>	<b>NUP224</b>	<b>N224</b>	<b>HJ224</b>	261.000	299.000	3000	3500		132	138	146	157	188	203	196	2.0	2.0	5.6500	0.72
	215	58.0	2.1	2.1	143.500					5.4	<b>NU2224</b>	<b>NJ2224</b>	<b>NUP2224</b>			369.000	473.000	3000	3500		132	138	146	157	-	203	-	2.0	2.0	8.5500	
	215	76.2	2.1	2.1	145.140					7.0	<b>NU5224M</b>					482.000	794.000	2700	3200		140	-	149	-	-	194	-	2.0	2.0	11.8000	
	260	55.0	3.0	3.0	154.000		170.5	14	23.50	2.7	<b>NU324</b>	<b>NJ324</b>	<b>NUP324</b>		<b>HJ324</b>	447.000	473.000	2400	2800		134	145	156	172	-	246	-	2.5	2.5	13.0000	1.40
	260	86.0	3.0	3.0	154.000					6.4	<b>NU2324EMAS</b>	<b>NJ2324EMAS</b>	<b>NUP2324EMAS</b>			810.000	981.000	2100	2500		134	145	156	172	-	246	-	2.5	2.5	24.5000	
310	72.0	5.0	6.0	170.000			188.0	17	30.50	2.7	<b>NU424</b>	<b>NJ424</b>	<b>NUP424</b>		<b>HJ424</b>	736.000	810.000	1900	2200		144	155	172	192	-	286	-	4.0	4.0	28.0000	2.60
130	200	33.0	2.0	1.1	148.000					2.0	<b>NU1026</b>					162.000	203.000	3200	3800	130	138	143	151	-	-	191	-	2.0	1.0	3.7500	
	230	40.0	3.0	3.0	156.000	204.0	167.0	11	19.00	2.5	<b>NU226</b>	<b>NJ226</b>	<b>NUP226</b>	<b>N226</b>	<b>HJ226</b>	271.000	322.000	2700	3200		144	150	158	169	201	216	208	2.5	2.5	6.5000	0.84
	230	79.38	4.0	4.0	155.000					8.0	<b>NU5226M</b>					511.000	841.000	2500	3000		149	-	159	-	-	207	-	3.0	2.0	13.8000	
	280	58.0	4.0	4.0	167.000		182.3	14	23.00	2.9	<b>NU326E</b>	<b>NJ326E</b>	<b>NUP326E</b>		<b>HJ326E</b>	619.000	694.000	2000	2400		148	155	169	186	-	262	-	3.0	3.0	17.0000	1.65
140	250	42.0	3.0	3.0	169.000	221.0	181.0	11	19.00	2.5	<b>NU228</b>	<b>NJ228</b>	<b>NUP228</b>	<b>N228</b>	<b>HJ228</b>	310.000	369.000	2500	3000	140	154	160	171	182	218	236	255	2.5	2.5	8.2500	1.00
	250	82.55	4.0	4.0	168.460					10.0	<b>NU5228M</b>					596.000	981.000	2200	2700		162	-	173	-	-	225	-	3.0	3.0	17.1000	
	300	62.0	4.0	4.0	180.000		198.4	15	26.00	2.7	<b>NU328</b>	<b>NJ328</b>	<b>NUP328</b>		<b>HJ328</b>	619.000	708.000	2000	2400		158	166	182	198	-	282	-	3.0	3.0	20.0000	2.05
	225	35.0	2.1	1.5	169.500					2.0	<b>NU1030</b>					192.000	251.000	2700	3200	150	159	165	173	-	-	213	-	2.0	1.5	4.8500	
150	270	45.0	3.0	3.0	182.000		194.7	12	20.50	2.4	<b>NU230</b>	<b>NJ230</b>	<b>NUP230</b>		<b>HJ230</b>	369.000	455.000	2200	2700		164	170	184	196	-	256	-	2.5	2.5	10.5000	1.35
	270	45.0	3.0	3.0	182.000		193.7	12	19.50	2.4	<b>NU230E</b>	<b>NJ230E</b>	<b>NUP230E</b>		<b>HJ230E</b>	447.000	552.000	2200	2700		164	170	184	196	-	256	-	2.5	2.5	11.0000	1.30
	270	88.9	2.3	2.3	181.544					10.0	<b>NU5230M</b>					736.000	1260.000	2000	2400		174	-	187	-	-	243	-	5.0	2.0	22.9000	
	320	65.0	4.0	4.0	193.000		212.3	15	26.50	2.7	<b>NU330</b>	<b>NJ330</b>	<b>NUP330</b>		<b>HJ330</b>	681.000	779.000	1900	2200		168	185	195	213	-	302	-	3.0	3.0	27.0000	2.37

<sup>1)</sup> Permissible axial displacement out of central position

# Single Row Cylindrical Roller Bearings

## d = 160 to 1180 mm



Dimensions											Bearing Designation				Angle Ring	Basic Load Dynamic $C_r$	Rating Static $C_{or}$	Limiting Speed for Lubrication with		Abutment and Fillet Dimensions								Weight ~ Bearing Angle Ring	
d	D	B	$r_s$	$r_{1s}$	F	E	$d_2$	b	$b_1$	$s^1)$	NU	NJ	NUP	N	HJ			Grease	Oil	d	$d_a$	$d_a$	$d_b$	$d_c$	$d_d$	$D_a$	$D_b$		$r_a$
mm																	mm									kg			
160	290	48.0	3.00	3.0	195.000	207.4	12	20.00	2.5		<b>NU232M</b>	<b>NJ232M</b>	<b>NUP232M</b>		<b>HJ232</b>	511.000	631.000	2000	2400	160	174	180	197	210	276	2.5	2.5	14.7000	1.50
	290	98.42	2.50	6.3	193.634					10.0		<b>NU5232M</b>					764.000	1310.000	1900	2200	160	186	-	199	-	261	5.0	2.0	28.9000
170	260	42.0	2.10	2.1	193.000					3.0	<b>NU1034</b>				<b>HJ234</b>	276.000	376.000	2200	2700	170	179	190	197	-	248	2.0	2.0	7.9000	
	310	52.0	4.00	4.0	207.000	228.8	12	20.00	2.9		<b>NU234M</b>	<b>NJ234M</b>	<b>NUP234M</b>			607.000	750.000	1900	2200	170	188	195	211	223	293	3.0	3.0	16.6000	1.70
	310	104.77	3.20	6.3	205.483					10.0		<b>NU5234M</b>					891.000	1470.000	1800	2100	170	197	-	211	-	279	5.0	3.0	35.5000
180	280	46.0	2.10	2.1	205.000					3.6	<b>NU1036</b>				<b>HJ236</b>	329.000	447.000	2100	2500	180	189	196	209	-	268	2.0	2.0	10.5000	
	320	52.0	4.00	4.0	217.000	230.8	12	20.00	2.9		<b>NU236M</b>	<b>NJ236M</b>	<b>NUP236M</b>			631.000	794.000	1800	2100	180	198	207	220	233	302	3.0	3.0	19.5000	1.80
	320	86.0	4.00	4.0	218.000	230.5	12	29.00	6.9		<b>NU2236M</b>	<b>NJ2236M</b>	<b>NUP2236M</b>			736.000	1060.000	1800	2100	180	198	208	221	233	302	3.0	3.0	31.2000	1.90
200	310	51.0	2.10	2.1	229.000					4.2	<b>NU1040</b>				<b>HJ240E</b>	383.000	531.000	1900	2200	200	212	220	233	-	298	2.0	2.0	14.0000	
	360	58.0	4.00	4.0	243.000	258.2	14	23.00	2.9		<b>NU240E</b>	<b>NJ240E</b>	<b>NUP240E</b>			779.000	1000.000	1500	1800	200	218	227	246	261	342	3.0	3.0	28.4000	2.70
220	340	56.0	3.00	3.0	250.000					4.1	<b>NU1044</b>				<b>HJ248</b>	501.000	694.000	1700	200	220	234	240	254	-	326	2.5	2.5	18.5000	
	360	56.0	3.00	3.0	270.000					4.1	<b>NU1048</b>					531.000	764.000	1600	1900	240	254	260	275	-	346	2.5	2.5	20.0000	
240	440	72.0	5.00	5.0	295.000					4.0	<b>NU248</b>	<b>NJ248</b>				944.000	1280.000	1300	1600	240	258	293	298	316	422	3.0	3.0	50.5000	
	440	72.0	5.00	5.0	295.000	315.0	16	25.90	4.0		<b>NUJ248</b>	<b>NH248</b>				944.000	1280.000	1300	1600	240	258	293	298	316	422	3.0	3.0	50.5000	4.68
	400	65.0	4.00	4.0	296.000					2.0	<b>NU1052</b>		<b>NUP1052</b>			643.000	962.000	1400	1700	260	278	280	300	-	382	3.0	3.0	29.0000	
260	480	130.0	5.00	5.0	320.000					4.3	<b>NU2252</b>					1760.000	2900.000	1100	1400	260	280	309	324	-	460	4.0	4.0	90.0000	
	280	420	65.0	4.00	4.0	316.000				5.0	<b>NU1056</b>					681.000	1020.000	1300	1600	280	296	311	320	-	404	3.0	3.0	32.5000	
300	460	74.0	5.00	5.0	340.000					4.5	<b>NU1060</b>	<b>NJ1060</b>				891.000	1310.000	1200	1400	300	318	325	344	360	442	3.0	3.0	43.6000	
	460	74.0	5.00	5.0	340.000	357.6	19	36.00	4.5		<b>NUJ1060</b>	<b>NH1060</b>				891.000	1310.000	1200	1400	300	318	325	344	360	442	3.0	3.0	43.6000	5.63
320	480	74.0	4.00	4.0	360.000					5.0	<b>NU1064</b>					909.000	1390.000	1100	1300	320	336	355	364	-	464	3.0	3.0	48.5000	
	360	540	82.0	6.00	6.0	480.000				5.0	<b>NU1072</b>					1076.000	1753.000	950	1100	360	382	390	410	-	518	4.0	4.0	67.5000	
380	540	82.0	6.00	6.0	480.000	423.0	21	39.50	5.0			<b>NH1072</b>				1076.000	1753.000	950	1100	380	382	390	410	427	518	4.0	4.0	67.5000	10.00
	560	82.0	5.00	5.0	425.000					6.0	<b>NU1076</b>					1166.000	1982.000	850	1000	380	400	420	430	-	540	4.0	4.0	71.0000	
400	600	90.0	5.00	5.0	450.000	470	19.6	42.6	5.0		<b>NU1080</b>	<b>NUJ1080</b>			<b>HJ1080</b>	1470.000	2330.000	840	1000	400	422	435	455	-	578	4.0	4.0	89.0000	10.50
	600	148.0	5.00	5.0	450.000					5.0	<b>NU3080</b>					2255.000	4900.000	760	910	400	422	435	455	-	578	4.0	4.0	150.5000	
	720	185.0	6.00	6.0	480.000					16.0	<b>NU2280</b>					3410.000	5960.000	710	840	400	426	460	485	-	694	5.0	5.0	350.0000	
600	800	118.0	5.00	5.0	650.000					12.0	<b>NU29/600</b>		<b>NUP29/600</b>			2230.000	4853.000	560	700	600	614	644	654	675	750	4.0	4.0	173.0000	
	850	1120	155.0	8.00	8.0	925.000				15.0	<b>NU29/850</b>		<b>NUP29/850</b>			3760.000	8740.000	380	450	850	878	920	930	952	1092	5.0	5.0	470.0000	
900	1180	165.0	8.00	8.0	982.000					17.0	<b>NU29/900</b>		<b>NUP29/900</b>			4220.000	9810.000	300	400	900	928	977	987	1011	1152	5.0	5.0	500.0000	
	950	1250	175.0	10.00	10.0	1032.000				17.0	<b>NU29/950</b>		<b>NUP29/950</b>			4577.000	11452.000	300	370	950	978	1027	1041	1066	1220	5.0	5.0	597.0000	
1000	1320	185.0	10.00	10.0	1090.000					17.0	<b>NU29/1000</b>		<b>NUP29/1000</b>			4920.000	11600.000	300	350	1000	1036	1085	1095	1122	1284	6.0	6.0	720.0000	
	1060	1400	195.0	10.00	10.0	1155.000				20.0	<b>NU29/1060</b>		<b>NUP29/1060</b>			5410.000	12800.000	280	330	1060	1096	1150	1160	1189	1364	6.0	6.0	850.0000	
1180	1540	206.0	10.00	10.0	1280.000					21.0	<b>NU29/1180</b>		<b>NUP29/1180</b>			6310.000	15300.000	250	300	1180	1216	1275	1285	1316	1504	6.0	6.0	1050.0000	

<sup>1)</sup> Permissible axial displacement out of central position