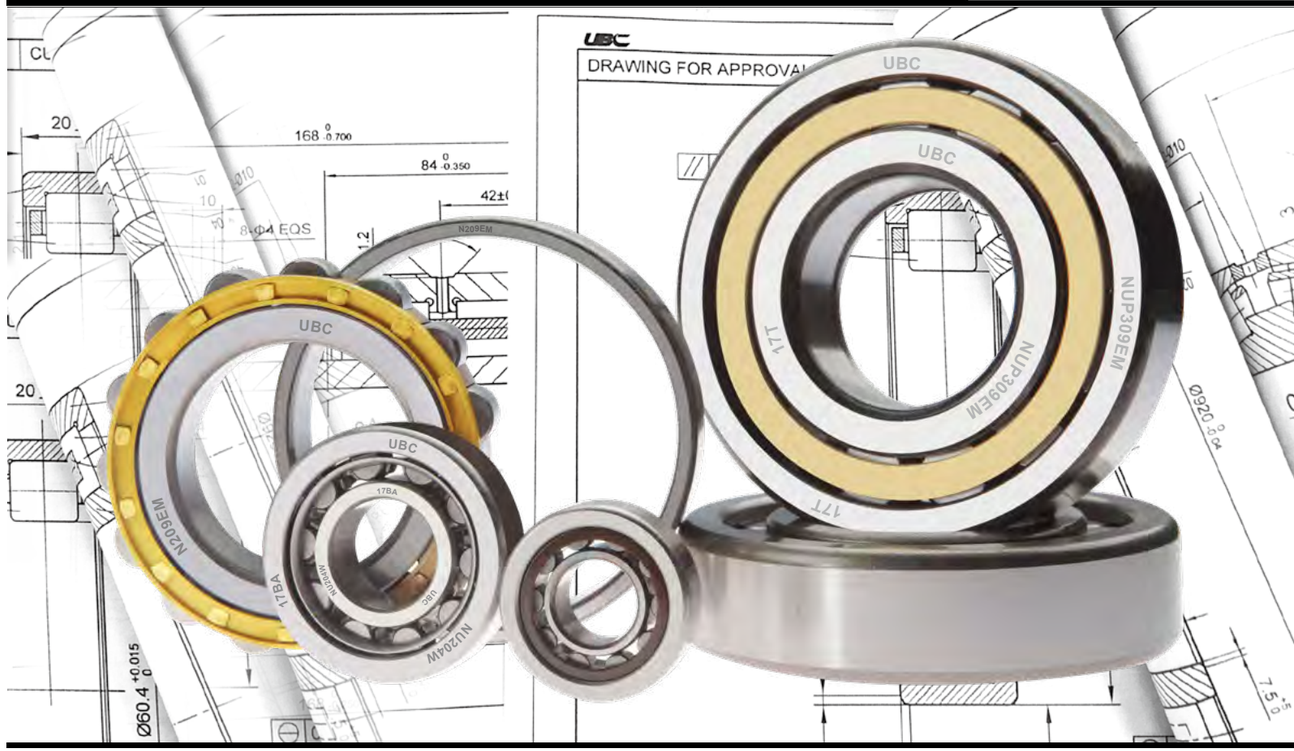
UBC
BEARINGS

CONTACT US

CYLINDRICAL ROLLER BEARINGS



OUR BEARINGS, YOUR SOLUTION.

UBC
BEARINGS

www.ubc-bearing.com

An IKO Company

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PREMIUM QUALITY.
OPTIMUM PERFORMANCE.
COST EFFICIENT.

UBC operates a modern manufacturing facility that has passed strict audits by some of the most demanding industrial companies worldwide.

We have been able to accomplish this by adopting the latest manufacturing technology that previously was offered only by major global bearing companies and investing in top class equipments. Japanese production and quality management systems have also been adopted as part of UBC's overall commitment to quality, allowing UBC to manufacture affordable, world class quality products with optimum performance.

Our factory is ISO 9001 certified and observes our Quality Management System according to TS16949. To be a "World Class Manufacturing" operation, our factory utilizes 5S Site Management and Safety Production Management practices.

- Advanced production facilities
- Temperature controlled environment
- Central emulsion supply system
- World class inspection equipment
- IT innovation in quality management
- Premium raw materials
- Top-tier component suppliers
- Complete traceability
- Premium packaging
- Excellent pre- & after- service

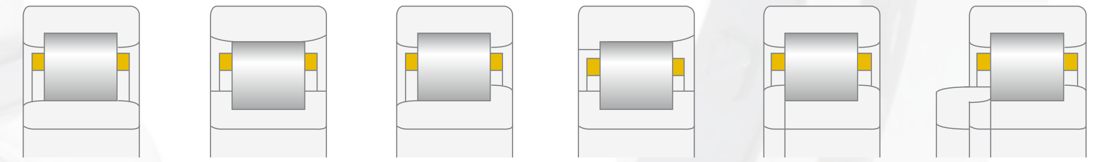
☆ ISO 9001:2008 certified by SGS
☆ ISO/TS 16949:2009 certified by SGS
☆ 5S on site management

MAIN APPLICATIONS OF UBC BEARINGS

- Industrial gearbox
- Automotive gearbox
- Pump and compressor
- Electric motor
- Speed reducer for robotics
- Crane / Construction machinery
- Forklift
- Agriculture machinery
- Steel mill
- Mining
- Cement
- Paper machine
- Sugar mill
- Textile machinery

CYLINDRICAL ROLLER BEARINGS

UBC cylindrical roller bearings are available in a variety of sizes in single-row configurations (shown below) with different cage designs in pressed steel, machined brass, polyamide, or advanced special materials. In addition to these single-row configurations, we also offer cylindrical roller bearings in double- row and multi-row designs. These bearings can be supplied in either full complement or caged configurations.



NU N NJ NF NUP NH (NJ+HJ)

HOW THESE CYLINDRICAL ROLLER BEARING DESIGNS ARE USED:

Bi-Directional Positioning for Floating Applications - NU & N type

The NU and N type designs allow axial displacement of the shaft with respect to the housing in both directions. These designs are normally selected as non-locating bearings

Uni-Directional Positioning for Floating or Fixed Applications - NJ & NF type

The NJ and NF designs allow axial displacement of the shaft with respect to the housing in only one direction. These designs can only locate the shaft axially in one direction.

Locked Positioning for Fixed Applications - NUP & NH type

The NUP and NH type designs do not allow axial displacement of the shaf with respect to the housing in either direction. These designs can locate the shaft axially in both directions.

UBC offers several different cage designs and materials, each developed to meet the specific needs of your application.

Cage Material	Suffix	Description
Brass	M	Machined brass, roller centred
	MA	Machined brass, outer ring centred
	MB	Machined brass, inner ring centred
Nylon	TN	Injection moulded cage of polyamide 6.6, rolling element centred
Plastic	TN7	Injection moulded cage of glass fibre reinforced polyamide 6.6, rolling element centred
Steel	J	Pressed steel, roller centred

Country	Bearing steel	Standard
USA	52100	ASTM
Germany	100Cr6	DIN
Japan	SUJ2	JIS
China	GCr15	GB

- Made with ultra clean and homogenous steel with a minimum number of inclusions.
- Cage material selection and suggestion for larger load capacity applications.

ADVANCED TECHNOLOGY

Optimum Rib Geometry from Hard Turning

- Greater axial load carrying capacity due to optimized rib contact
- A higher level of energy efficiency due to reduced frictional torque
- Suitable for extremely high radial loads at very high speeds
- Enhanced lubrication
- Increased misalignment capabilities
- Maximum usable rib length
- Increased performance under axial loading conditions
- Up to 1.5 times increase in axial load capacity

Finish Hard Turning

Greater accuracy, excellent value.

Finish hard turning allows for machining parts in one set up resulting in more precise geometry.

- **More flexibility:** With a single standard tool and clamping set-up, you can machine a wide variety of products with different forms and sizes. Providing more flexibility and reduces changeovers.
- **Higher productivity:** Finish hard turning can remove more material per machining operation than grinding. Making hard turning 3 to 4 times faster when compared to grinding.
- **Cost savings:** Multiple operations can be done in one set-up which eliminates the need for a multi-step grinding process.

Control

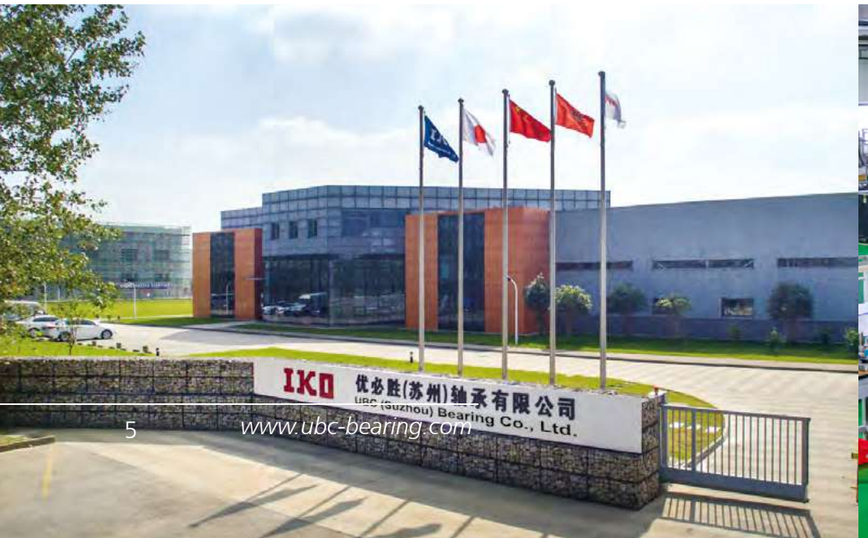
- Temperature controlled for manufacturing environment
- Precision levels of ABEC5 (P5) and above
- Control on raw materials and production processes
- 100% traceable on material, components, manufacturing and assembly
- IT innovation adapted in quality control system
- Manufacturing SPC controlled at center of tolerance range

Material, Grinding and Heat Treatment

- Ultraclean, extremely wear resistant, low oxygen level bearing steel
- Grinding and hard turning facilities
- New heat treatment procedures optimize the bearing resistance to operational damage and temperatures without affecting dimensional stability

Machines

- German engineered production Machineries controlled by SIEMENS Systems interfaces
- Vertical turning machinery for hard turning process
- German engineered production machinery, most notably Thielenhaus superfinishing machines
- 3-stage ultrasonic washing equipment
- Marh profile inspection equipment
- Magnetic particle flaw detect machinery
- Mitutoyo roundness inspection equipment



Cylindrical Roller Bearings

Single row cylindrical roller bearings

The rollers in a single row cylindrical roller bearing are always guided between the integral flanges on one of the rings. These flanges combined with the special designed and surface finished roller ends, provide improved lubrication, reduced friction and consequently lower operating temperature.

Single row cylindrical roller bearing can accommodate heavy radial loads and high speeds. They are manufactured in several different designs, the main difference being in the configuration of the flanges. The most common designs are NU, NJ, NUP and N designs,

NU design: The outer ring of an NU design bearing has two integral flanges while inner ring has no flanges. Axial displacement of the shaft with respect to the housing can be accommodated in both directions. NU design bearings are normally selected as locating bearings.

N design: The inner ring of an N design bearing has two integral flanges while the outer ring has no flanges. Axial displacement of the shaft with respect to the housing can be accommodated in both directions. N design bearings are normally selected as non-locating bearings.

NJ design: The outer ring of an NJ design bearing has two integral flanges and the inner ring has one integral flange. These bearings can locate the shaft axially in one direction.

NUP design: The outer ring of an NUP design bearing has two integral flanges and the inner ring has one integral and one non-integral flange and one non-integral flange in the form of a loose flange ring. These bearings can be used as locating bearings to locate the shaft axially in both directions.

C2 Bearing internal clearance smaller than Normal
C3 Bearing internal clearance greater than Normal
C4 Bearing internal clearance greater than C3
C5 Bearing internal clearance greater than C4
E Modified internal design inlcuding more or bigger rollers with optimized contact surface between rollers and flange
J Press steel cage, Rolling element centered
M Machined brass cage, Rolling element centered
N Snap ring groove in the outer ring
NR Snap ring groove in the outer ring with appropriate snap ring
TN Injection moulded cage of polyamide 66

Double row cylindrical roller bearing

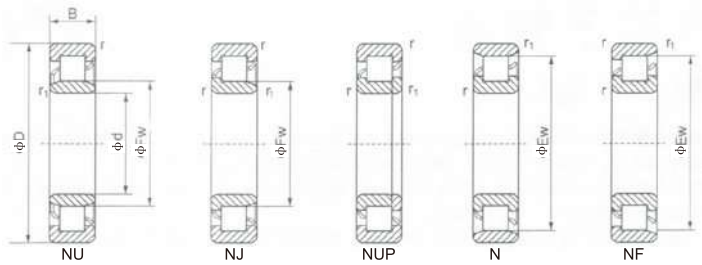
Double row cylindrical roller bearing have small cross section and can accommodate very heavy radial loads. Those bearings are widely used for machine tools, rolling stations, plastic cylinder cans, grinding machines and large size gearboxes.

NNU design and NN design double row cylindrical roller bearings are separable, so their roller and cage assembly can be mounted separately with bearing rings or all bearing components can be mounted separately and thus make the mounting, dismounting and inspection of the bearing very easy.

Double row cylindrical roller bearings have cylindrical bore and tapered bore. Normally NN design double row cylindrical bearing has tapered bore and it's possible to achieve certain radial clearance or preload during bearing mounting.

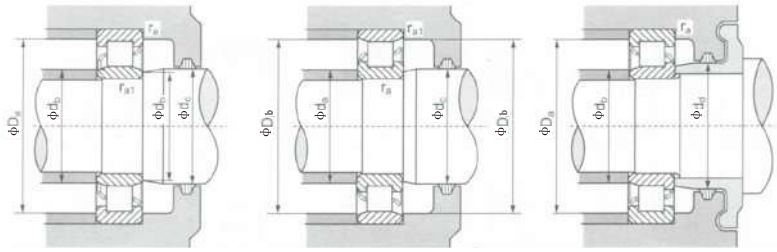
C1 Bearing internal clearance smaller than C2
C2 Bearing internal clearance smaller than Normal
C3 Bearing internal clearance greater than Normal
C4 Bearing internal clearance greater than C3
C5 Bearing internal clearance greater than C4
K Tapered bore, taper: 1:12
K30 Tapered bore, taper: 1:30
M Machined brass cage, Rolling element centered
TN Injection moulded cage of polyamide 66
W33 Annular groove and 3 lubrication holes in the outer ring

d: 17 ~ 35 mm



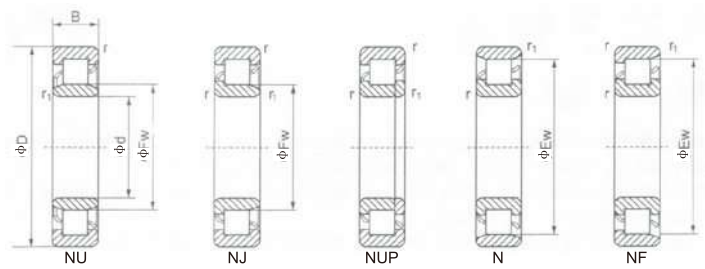
NU NJ NUP N NF

Principal Dimensions (mm)							Bearing Designations					Basic Load Ratings (N)	
d	D	B	Ew	Fw	r (min)	r1 (min)	NU	NJ	NUP	N	NF	Dynamic Cr	Static Cor
17	40	12	33.9	22.9	0.6	0.3	**NU 203**	NJ	NUP	N	NF	12600	7950
20	47	14	40	27	1	0.6	**NU 204**	NJ	NUP	N	NF	15400	12700
	47	14	-	26.5	1	0.6	**NU 204E**	NJ	NUP	-	-	25700	22600
	47	18	-	27	1	0.6	**NU 2204**	NJ	NUP	-	-	20600	20700
	47	18	-	26.5	1	0.6	**NU 2204E**	NJ	NUP	-	-	30500	28300
	52	15	44.5	28.5	1.1	0.6	**NU 304**	NJ	NUP	N	NF	20700	19200
	52	15	-	27.5	1.1	0.6	**NU 304**	NJ	NUP	-	-	31500	26900
	52	21	-	28.5	1.1	0.6	**NU 2304**	NJ	NUP	-	-	30500	27200
	52	21	-	27.5	1.1	0.6	**NU 2304E**	NJ	NUP	-	-	42000	38500
25	47	12	41.5	30.5	0.6	0.3	**NU 1005**	-	-	N	-	14300	13100
	52	15	45	32	1	0.6	**NU 205**	NJ	NUP	N	NF	17500	15700
	52	15	-	31.5	1	0.6	**NU 205E**	NJ	NUP	-	-	29300	27700
	52	18	-	32	1	0.6	**NU 2205**	NJ	NUP	-	-	24300	23500
	52	18	-	31.5	1	0.6	**NU 2205E**	NJ	NUP	-	-	35000	34500
	62	17	53	35	1.1	1.1	**NU 305**	NJ	NUP	N	NF	29200	25200
	62	17	-	34	1.1	1.1	**NU 305E**	NJ	NUP	-	-	41500	37500
	62	24	-	35	1.1	1.1	**NU 2305**	NJ	NUP	-	-	42500	41000
	62	24	-	34	1.1	1.1	**NU 2305E**	NJ	NUP	-	-	57000	56000
	80	21	62.8	38.8	1.5	1.5	**NU 405**	NJ	NUP	N	NF	46500	40000
30	55	13	48.5	36.5	1	0.6	**NU 1006**	-	-	N	-	18700	18400
	62	16	53.5	38.5	1	0.6	**NU 206**	NJ	NUP	N	NF	23500	21500
	62	16	-	37.5	1	0.6	**NU 206E**	NJ	NUP	-	-	39000	37500
	62	20	-	38.5	1	0.6	**NU 2206**	NJ	NUP	-	-	33000	33000
	62	20	-	37.5	1	0.6	**NU 2206E**	NJ	NUP	-	-	49000	50000
	72	19	62	42	1.1	1.1	**NU 306**	NJ	NUP	N	NF	38500	35000
	72	19	-	40.5	1.1	1.1	**NU 306E**	NJ	NUP	-	-	53000	50000
	72	27	-	42	1.1	1.1	**NU 2306**	NJ	NUP	-	-	51500	51000
	72	27	-	40.5	1.1	1.1	**NU 2306E**	NJ	NUP	-	-	74500	77500
	90	23	73	45	1.5	1.5	**NU 406**	NJ	NUP	N	NF	62500	55000
35	62	14	55	42	1	0.6	**NU 1007**	-	-	N	-	21600	21800
	72	17	61.8	43.8	1.1	0.6	**NU 207**	NJ	NUP	N	NF	33500	31500
	72	17	-	44	1.1	0.6	**NU 207E**	NJ	NUP	-	-	50000	50000
	72	23	-	43.8	1.1	0.6	**NU 2207**	NJ	NUP	-	-	49000	51000
	72	23	-	44	1.1	0.6	**NU 2207E**	NJ	NUP	-	-	61500	65000
	80	21	68.2	46.2	1.5	1.1	**NU 307**	NJ	NUP	N	NF	49500	47000
	80	21	-	46.2	1.5	1.1	**NU 307E**	NJ	NUP	-	-	66500	65500
	80	31	-	46.2	1.5	1.1	**NU 2307**	NJ	NUP	-	-	60500	60000
	80	31	-	46.2	1.5	1.1	**NU 2307E**	NJ	NUP	-	-	99000	109000



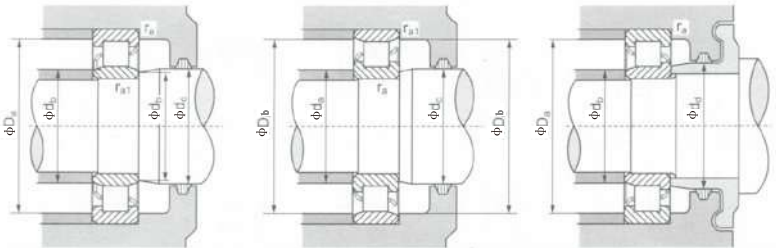
Limiting Speed (rpm)		Abutment and Fillet Dimensions (mm)									Weight (kg)
Grease	Oil	d_a (min)	d_b (min)	d_b (max)	d_c (min)	d_d (min)	D_a (max)	D_b (max)	D_b (min)	r_a (max)	r_{a1} (max)	
16000	19000	22	19	22	24	25	35	34	34	0.6	0.3	0.082
15000	18000	26	25	26	29	32	41	42	42	1	0.6	0.112
13000	16000	-	25	26	29	32	41	-	-	1	0.6	0.124
14000	17000	-	25	26	29	32	41	-	-	1	0.6	0.144
13000	16000	-	25	26	29	32	41	-	-	1	0.6	0.162
12000	14000	27	25	27	30	33	45	47	47	1	0.6	0.154
10000	12000	-	25	27	30	33	45	-	-	1	0.6	0.150
11000	13000	-	25	27	30	33	45	-	-	1	0.6	0.213
10000	12000	-	25	27	30	33	45	-	-	1	0.6	0.240
15000	18000	29	27.5	30	32	-	42	45	41.8	0.6	0.3	0.086
12000	15000	31	30	31	34	37	46	47	47	1	0.6	0.133
10000	12000	-	30	31	34	37	46	-	-	1	0.6	0.140
11000	13000	-	30	31	34	37	46	-	-	1	0.6	0.163
10000	12000	-	30	31	34	37	46	-	-	1	0.6	0.185
9500	12000	32	32	33	37	40	55	55	55	1	1	0.238
8500	10000	-	32	33	37	40	55	-	-	1	1	0.240
9300	11000	-	32	33	37	40	55	-	-	1	1	0.340
8500	10000	-	32	33	37	40	55	-	-	1	1	0.390
7500	9000	33.5	33.5	38	41	46	71.5	71.5	64	1.5	1.5	0.564
12000	15000	35	33.5	35	38	-	49	52	49	1	0.6	0.123
10000	13000	36	35	37	40	44	56	57	56	1	0.6	0.204
8500	10000	-	35	37	40	44	56	-	-	1	0.6	0.210
9200	11000	-	35	37	40	44	56	-	-	1	0.6	0.262
8500	10000	-	35	37	40	44	56	-	-	1	0.6	0.295
8500	10000	37	37	40	44	48	65	65	64	1	1	0.357
7800	9400	-	37	40	44	48	65	-	-	1	1	0.370
8200	9800	-	37	40	44	48	65	-	-	1	1	0.500
7800	9400	-	37	40	44	48	65	-	-	1	1	0.585
7500	9000	38.5	38.5	44	47	52	81.5	81.5	74	1.5	1.5	0.770
10000	13000	40	38.5	41	44	-	56	59	55.5	1	0.6	0.185
9000	11000	42	40	43	46	50	65	67	64	1	0.6	0.295
8200	9800	-	40	43	46	50	65	-	-	1	0.6	0.300
8500	10000	-	40	43	46	50	65	-	-	1	0.6	0.402
8200	9800	-	40	43	46	50	65	-	-	1	0.6	0.446
8000	9500	43.5	42	45	48	53	71.5	73	71	1.5	1	0.470
6800	8200	-	42	45	48	53	71.5	-	-	1.5	1	0.490
7200	8600	-	42	45	48	53	71.5	-	-	1.5	1	0.696
6800	8200	-	42	45	48	53	71.5	-	-	1.5	1	0.780

d: 35 ~ 55 mm



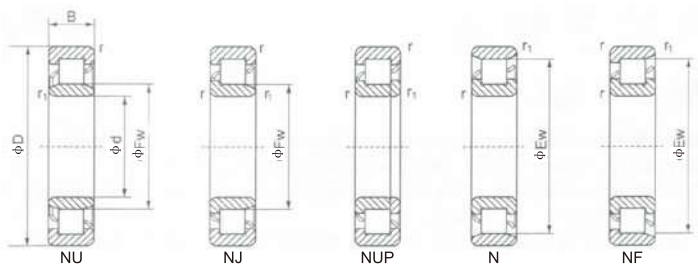
NU NJ NUP N NF

Principal Dimensions (mm)							Bearing Designations					Basic Load Ratings (N)	
d	D	B	Ew	Fw	r (min)	r1 (min)	NU	NJ	NUP	N	NF	Dynamic Cr	Static Cor
35	100	25	83	53	1.5	1.5	**NU 407**	NJ	NUP	N	NF	75000	69000
40	68	15	61	47	1	0.6	**NU 1008**	-	-	N	-	25000	25700
	80	18	70	50	1.1	1.1	**NU 208**	NJ	NUP	N	NF	43500	43000
	80	18	-	49.5	1.1	1.1	**NU 208E**	NJ	NUP	-	-	55500	55500
	80	23	-	50	1.1	1.1	**NU 2208**	NJ	NUP	-	-	58000	62000
	80	23	-	49.5	1.1	1.1	**NU 2208E**	NJ	NUP	-	-	72000	77500
	90	23	77.5	53.5	1.5	1.5	**NU 308**	NJ	NUP	N	NF	58500	57000
	90	23	-	52	1.5	1.5	**NU 308E**	NJ	NUP	-	-	83000	81500
	90	33	-	53.5	1.5	1.5	**NU 2308**	NJ	NUP	-	-	82000	88000
	90	33	-	52	1.5	1.5	**NU 2308E**	NJ	NUP	-	-	114000	122000
	110	27	92	58	2	2	**NU 408**	NJ	NUP	N	NF	95500	89000
45	75	16	67.5	52.5	1	0.6	**NU 1009**	-	-	N	-	29700	32000
	85	19	75	55	1.1	1.1	**NU 209**	NJ	NUP	N	NF	46000	47000
	85	19	-	54.5	1.1	1.1	**NU 209E**	NJ	NUP	-	-	63000	66500
	85	23	-	55	1.1	1.1	**NU 2209**	NJ	NUP	-	-	61500	67500
	85	23	-	54.5	1.1	1.1	**NU 2209E**	NJ	NUP	-	-	76000	84500
	100	25	86.5	58.5	1.5	1.5	**NU 309**	NJ	NUP	N	NF	78500	77500
	100	25	-	58.5	1.5	1.5	**NU 309E**	NJ	NUP	-	-	97500	98500
	100	36	-	58.5	1.5	1.5	**NU 2309**	NJ	NUP	-	-	99000	104000
	100	36	-	58.5	1.5	1.5	**NU 2309E**	NJ	NUP	-	-	137000	153000
	120	29	100.5	64.5	2	2	**NU 409**	NJ	NUP	N	NF	107000	102000
50	80	16	72.5	57.5	1	0.6	**NU 1010**	-	-	N	-	32000	36000
	90	20	80.4	60.4	1.1	1.1	**NU 210**	NJ	NUP	N	NF	48000	51000
	90	20	-	59.5	1.1	1.1	**NU 210E**	NJ	NUP	-	-	66000	72000
	90	23	-	60.4	1.1	1.1	**NU 2210**	NJ	NUP	-	-	64000	73500
	90	23	-	59.5	1.1	1.1	**NU 2210E**	NJ	NUP	-	-	79500	91500
	110	27	95	65	2	2	**NU 310**	NJ	NUP	N	NF	86500	86000
	110	27	-	65	2	2	**NU 310E**	NJ	NUP	-	-	110000	113000
	110	40	-	65	2	2	**NU 2310**	NJ	NUP	-	-	120000	131000
	110	40	-	65	2	2	**NU 2310E**	NJ	NUP	-	-	162000	187000
	130	31	110.8	70.8	2.1	2.1	**NU 410**	NJ	NUP	N	NF	138000	136000
55	90	18	80.5	64.5	1.1	1	**NU 1011**	-	-	N	-	36000	41500
	100	21	88.5	66.5	1.5	1.1	**NU 211**	NJ	NUP	N	NF	58000	62000
	100	21	-	66	1.5	1.1	**NU 211E**	NJ	NUP	-	-	82500	93000
	100	25	-	66.5	1.5	1.1	**NU 2211**	NJ	NUP	-	-	75000	87000
	100	25	-	66	1.5	1.1	**NU 2211E**	NJ	NUP	-	-	97000	114000
	120	29	104.5	70.5	2	2	**NU 311**	NJ	NUP	N	NF	110000	111000
	120	29	-	70.5	2	2	**NU 311E**	NJ	NUP	-	-	137000	143000

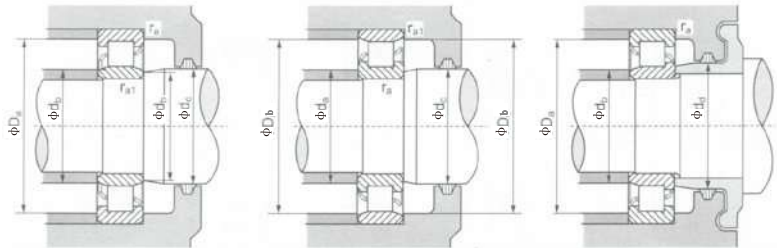


Limiting Speed (rpm)		Abutment and Fillet Dimensions (mm)									Weight (kg)
Grease	Oil	d_a (min)	d_b (min)	d_b (max)	d_c (min)	d_d (min)	D_a (max)	D_b (max)	D_b (min)	r_a (max)	r_{a1} (max)	
6700	8000	43.5	43.5	52	55	61	91.5	91.5	84	1.5	1.5	1.05
9500	12000	45	45	46	49	-	62	64	61.5	1	0.6	0.226
8500	10000	47	47	49	52	56	73	73	72	1	1	0.369
7200	8600	-	47	49	52	56	73	-	-	1	1	0.380
7500	9000	-	47	49	52	56	73	-	-	1	1	0.490
7200	8600	-	47	49	52	56	73	-	-	1	1	0.743
6700	8000	48.5	48.5	51	55	60	81.5	81.5	80	1.5	1.5	0.665
6400	7700	-	48.5	51	55	60	81.5	-	-	1.5	1.5	0.670
6500	7800	-	48.5	51	55	60	81.5	-	-	1.5	1.5	0.956
6400	7700	-	48.5	51	55	60	81.5	-	-	1.5	1.5	1.050
6000	7000	50	50	57	60	67	100	100	93	2	2	1.330
9000	11000	50	50	52	54	-	69	71	68	1	0.6	0.284
7500	9000	52	52	54	57	61	78	78	77	1	1	0.430
7000	8500	-	52	54	57	61	78	-	-	1	1	0.440
7400	8900	-	52	54	57	61	78	-	-	1	1	0.536
7000	8500	-	52	54	57	61	78	-	-	1	1	0.593
6300	7500	53.5	53.5	57	60	66	91.5	91.5	89	1.5	1.5	0.871
6000	7200	-	53.5	57	60	66	91.5	-	-	1.5	1.5	0.910
6100	7300	-	53.5	57	60	66	91.5	-	-	1.5	1.5	1.250
6000	7200	-	53.5	57	60	66	91.5	-	-	1.5	1.5	1.400
5600	6700	55	55	63	66	74	110	110	102	2	2	1.670
8500	10000	53	53	57	59	-	74	76	73	1	0.6	0.310
7000	8500	57	57	58	62	67	83	83	83	1	1	0.481
6400	7700	-	57	58	62	67	83	-	-	1	1	0.490
6500	7800	-	57	58	62	67	83	-	-	1	1	0.580
6400	7700	-	57	58	62	67	83	-	-	1	1	0.632
5600	6700	60	60	63	67	73	100	100	98	2	2	1.170
5400	6500	-	60	63	67	73	100	-	-	2	2	1.170
5400	6500	-	60	63	67	73	100	-	-	2	2	1.690
5400	6500	-	60	63	67	73	100	-	-	2	2	1.850
5000	6000	62	62	69	73	81	118	118	112	2	2	2.050
7500	9000	61.5	61	63	66	-	83	85	81.5	1	1	0.449
6300	7500	63.5	62	65	68	73	91.5	93	91	1.5	1	0.634
5800	7000	-	62	65	68	73	91.5	-	-	1.5	1	0.670
6200	7400	-	62	65	68	73	91.5	-	-	1.5	1	0.780
5800	7000	-	62	65	68	73	91.5	-	-	1.5	1	0.870
5000	6000	65	65	69	72	80	110	110	107	2	2	1.430
4800	5600	-	65	69	72	80	110	-	-	2	2	1.500

d: 55 ~ 75 mm

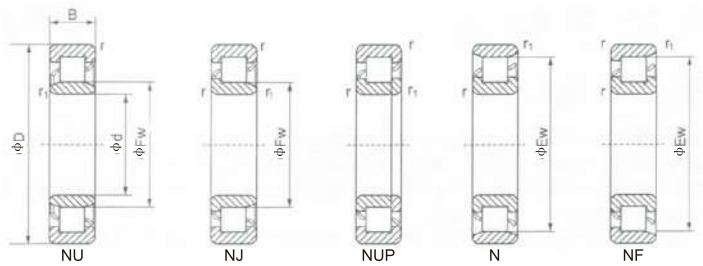


Principal Dimensions (mm)							Bearing Designations					Basic Load Ratings (N)	
d	D	B	Ew	Fw	r (min)	r1 (min)	NU	NJ	NUP	N	NF	Dynamic Cr	Static Cor
55	120	43	-	70.5	2	2	**NU 2311**	NJ	NUP	-	-	148000	162000
	120	43	-	70.5	2	2	**NU 2311E**	NJ	NUP	-	-	201000	233000
	140	33	117.2	77.2	2.1	2.1	**NU 411**	NJ	NUP	N	NF	139000	138000
60	95	18	85.5	69.5	1.1	1	**NU 1012**	-	-	N	-	37000	44000
	110	22	97.5	73.5	1.5	1.5	**NU 212**	NJ	NUP	N	NF	68500	75000
	110	22	-	72	1.5	1.5	**NU 212E**	NJ	NUP	-	-	97500	107000
	110	28	-	73.5	1.5	1.5	**NU 2212**	NJ	NUP	-	-	96000	116000
	110	28	-	72	1.5	1.5	**NU 2212E**	NJ	NUP	-	-	131000	157000
	130	31	113	77	2.1	2.1	**NU 312**	NJ	NUP	N	NF	123000	126000
	130	31	-	77	2.1	2.1	**NU 312E**	NJ	NUP	-	-	150000	150000
	130	46	-	77	2.1	2.1	**NU 2312**	NJ	NUP	-	-	168000	188000
	130	46	-	77	2.1	2.1	**NU 2312E**	NJ	NUP	-	-	222000	262000
	150	35	127	83	2.1	2.1	**NU 412**	NJ	NUP	N	NF	167000	168000
65	100	18	90.5	74.5	1.1	1	**NU 1013**	-	-	N	-	38000	46500
	120	23	105.6	79.6	1.5	1.5	**NU 213**	NJ	NUP	N	NF	83500	94500
	120	23	-	78.5	1.5	1.5	**NU 213E**	NJ	NUP	-	-	107000	119000
	120	31	-	79.6	1.5	1.5	**NU 2213**	NJ	NUP	-	-	120000	149000
	120	31	-	78.5	1.5	1.5	**NU 2213E**	NJ	NUP	-	-	149000	181000
	140	33	121.5	83.5	2.1	2.1	**NU 313**	NJ	NUP	N	NF	135000	139000
	140	33	-	82.5	2.1	2.1	**NU 313E**	NJ	NUP	-	-	180000	191000
	140	48	-	83.5	2.1	2.1	**NU 2313**	NJ	NUP	-	-	187000	212000
	140	48	-	82.5	2.1	2.1	**NU 2313E**	NJ	NUP	-	-	247000	287000
	160	37	135.3	89.3	2.1	2.1	**NU 413**	NJ	NUP	N	NF	195000	203000
70	110	20	100	80	1.1	1	**NU 1014**	-	-	N	-	55500	67000
	125	24	110.5	84.5	1.5	1.5	**NU 214**	NJ	NUP	N	NF	83000	95000
	125	24	-	83.5	1.5	1.5	**NU 214E**	NJ	NUP	-	-	119000	137000
	125	31	-	84.5	1.5	1.5	**NU 2214**	NJ	NUP	-	-	119000	151000
	125	31	-	83.5	1.5	1.5	**NU 2214E**	NJ	NUP	-	-	156000	194000
	150	35	130	90	2.1	2.1	**NU 314**	NJ	NUP	N	NF	158000	220000
	150	35	-	89	2.1	2.1	**NU 314E**	NJ	NUP	-	-	205000	222000
	150	51	-	90	2.1	2.1	**NU 2314**	NJ	NUP	-	-	223000	262000
	150	51	-	89	2.1	2.1	**NU 2314E**	NJ	NUP	-	-	274000	320000
	180	42	152	100	3	3	**NU 414**	NJ	NUP	N	NF	228000	235000
75	115	20	105	85	1.1	1	**NU 1015**	-	-	N	-	57500	71000
	130	25	116.5	88.5	1.5	1.5	**NU 215**	NJ	NUP	N	NF	96000	111000
	130	25	-	88.5	1.5	1.5	**NU 215E**	NJ	NUP	-	-	130000	156000
	130	31	-	88.5	1.5	1.5	**NU 2215**	NJ	NUP	-	-	129000	162000
	130	31	-	88.5	1.5	1.5	**NU 2215E**	NJ	NUP	-	-	161000	207000



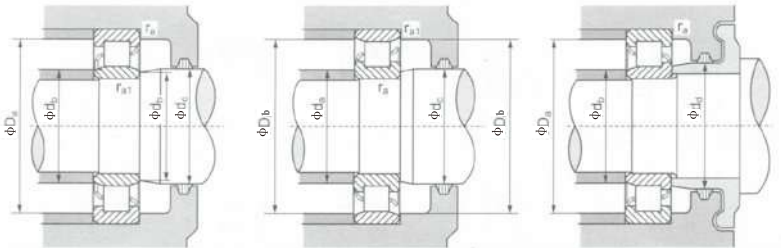
Limiting Speed (rpm)		Abutment and Fillet Dimensions (mm)										Weight (kg)
Grease	Oil	d_a (min)	d_b (min)	d_b (max)	d_c (min)	d_d (min)	D_a (max)	D_b (max)	D_b (min)	r_a (max)	r_{a1} (max)	
4800	5600	-	65	69	72	80	110	-	-	2	2	2.10
4800	5600	-	65	69	72	80	110	-	-	2	2	2.35
4800	5600	67	67	76	79	87	128	128	119	2	2	2.54
6700	8000	66.5	66	68	71	-	88	90	86.5	1	1	0.484
5600	6700	68.5	68.5	71	75	80	101.5	101.5	100	1.5	1.5	0.835
5000	6000	-	68.5	71	75	80	101.5	-	-	1.5	1.5	0.921
5300	6300	-	68.5	71	75	80	101.5	-	-	1.5	1.5	1.07
5000	6000	-	68.5	71	75	80	101.5	-	-	1.5	1.5	1.23
4800	5600	72	72	75	79	86	118	118	116	2	2	1.82
4200	4800	-	72	75	79	86	118	-	-	2	2	1.87
4300	5000	-	72	75	79	86	118	-	-	2	2	2.69
4200	4800	-	72	75	79	86	118	-	-	2	2	3.01
4300	5000	72	72	82	85	94	118	118	128	2	2	3.05
6300	7500	71.5	71	73	75	-	93	95	91.5	1	1	0.514
5300	6300	73.5	73.5	77	81	87	111.5	111.5	108	1.5	1.5	1.06
4800	5600	-	73.5	77	81	87	111.5	-	-	1.5	1.5	1.18
4800	5600	-	73.5	77	81	87	111.5	-	-	1.5	1.5	1.43
4800	5600	-	73.5	77	81	87	111.5	-	-	1.5	1.5	1.65
4500	5300	77	77	81	85	93	128	128	125	2	2	2.27
3800	4500	-	77	81	85	93	128	-	-	2	2	2.55
4000	4800	-	77	81	85	93	128	-	-	2	2	3.25
3800	4500	-	77	81	85	93	128	-	-	2	2	3.56
4000	4800	77	77	88	91	100	148	148	137	2	2	3.68
6000	7000	76.5	76	78	82	-	103	105	100.5	1	1	0.712
5000	6000	78.5	78.5	82	86	92	116.5	116.5	114	1.5	1.5	1.16
4600	5500	-	78.5	82	86	92	116.5	-	-	1.5	1.5	1.26
4800	5600	-	78.5	82	86	92	116.5	-	-	1.5	1.5	1.52
4600	5500	-	78.5	82	86	92	116.5	-	-	1.5	1.5	1.68
4000	4800	82	82	87	92	100	138	138	134	2	2	2.73
3600	4300	-	82	87	92	100	138	-	-	2	2	3.15
3800	4500	-	82	87	92	100	138	-	-	2	2	3.97
3600	4300	-	82	87	92	100	138	-	-	2	2	4.30
3600	4300	84	84	99	102	112	166	166	153	2.5	2.5	5.40
5600	6700	81.5	81	83	87	-	108	110	105.5	1	1	0.745
4800	5600	83.5	83.5	87	90	96	121.5	121.5	120	1.5	1.5	1.24
4300	5200	-	83.5	87	90	96	121.5	-	-	1.5	1.5	1.38
4500	5300	-	83.5	87	90	96	121.5	-	-	1.5	1.5	1.57
4300	5200	-	83.5	87	90	96	121.5	-	-	1.5	1.5	1.80

d: 75 ~ 95 mm



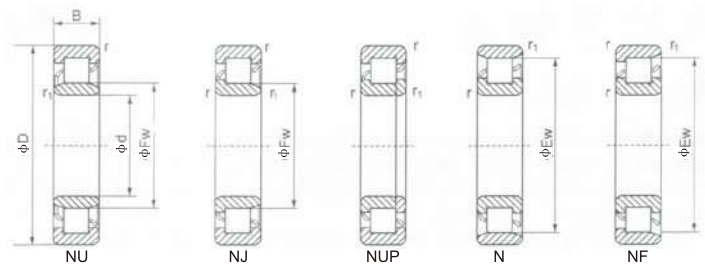
NU NJ NUP N NF

Principal Dimensions (mm)							Bearing Designations					Basic Load Ratings (N)	
d	D	B	Ew	Fw	r (min)	r1 (min)	NU	NJ	NUP	N	NF	Dynamic Cr	Static Cor
75	160	37	139.5	95.5	2.1	2.1	**NU 315**	NJ	NUP	N	NF	190000	205000
	160	37	-	95	2.1	2.1	**NU 315E**	NJ	NUP	-	-	240000	263000
	160	55	-	95.5	2.1	2.1	**NU 2315**	NJ	NUP	-	-	258000	300000
	160	55	-	95	2.1	2.1	**NU 2315E**	NJ	NUP	-	-	330000	395000
	190	45	160.5	104.5	3	3	**NU 415**	NJ	NUP	N	NF	262000	274000
80	125	22	113.5	91.5	1.1	1	**NU 1016**	-	-	N	-	69000	86500
	140	26	125.3	95.3	2	2	**NU 216**	NJ	NUP	N	NF	106000	122000
	140	26	-	95.3	2	2	**NU 216E**	NJ	NUP	-	-	139000	167000
	140	33	-	95.3	2	2	**NU 2216**	NJ	NUP	-	-	147000	186000
	140	33	-	95.3	2	2	**NU 2216E**	NJ	NUP	-	-	186000	243000
	170	39	147	103	2.1	2.1	**NU 316**	NJ	NUP	N	NF	190000	207000
	170	39	-	101	2.1	2.1	**NU 316E**	NJ	NUP	-	-	256000	282000
	170	58	-	103	2.1	2.1	**NU 2316**	NJ	NUP	-	-	274000	330000
	170	58	-	101	2.1	2.1	**NU 2316E**	NJ	NUP	-	-	355000	430000
	200	48	170	110	3	3	**NU 416**	NJ	NUP	N	NF	299000	315000
85	130	22	118.5	96.5	1.1	1	**NU 1017**	-	-	N	-	71500	91000
	150	28	133.8	101.8	2	2	**NU 217**	NJ	NUP	N	NF	120000	140000
	150	28	-	100.5	2	2	**NU 217E**	NJ	NUP	-	-	167000	199000
	150	36	-	101.8	2	2	**NU 2217**	NJ	NUP	-	-	169000	218000
	150	36	-	100.5	2	2	**NU 2217E**	NJ	NUP	-	-	217000	279000
	180	41	156	108	3	3	**NU 317**	NJ	NUP	N	NF	224000	247000
	180	41	-	108	3	3	**NU 317E**	NJ	NUP	-	-	291000	330000
	180	60	-	108	3	3	**NU 2317**	NJ	NUP	-	-	315000	380000
	180	60	-	108	3	3	**NU 2317E**	NJ	NUP	-	-	390000	485000
	210	52	177	113	4	4	**NU 417**	NJ	NUP	N	NF	330000	350000
90	140	24	127	103	1.5	1.1	**NU 1018**	-	-	N	-	81500	104000
	160	30	143	107	2	2	**NU 218**	NJ	NUP	N	NF	152000	178000
	160	30	-	107	2	2	**NU 218E**	NJ	NUP	-	-	182000	217000
	160	40	-	107	2	2	**NU 2218**	NJ	NUP	-	-	207000	265000
	160	40	-	107	2	2	**NU 2218E**	NJ	NUP	-	-	242000	315000
	190	43	165	115	3	3	**NU 318**	NJ	NUP	N	NF	240000	265000
	190	43	-	113.5	3	3	**NU 318E**	NJ	NUP	-	-	315000	355000
	190	64	-	115	3	3	**NU 2318**	NJ	NUP	-	-	325000	395000
	190	64	-	113.5	3	3	**NU 2318E**	NJ	NUP	-	-	435000	535000
	225	54	191.5	123.5	4	4	**NU 418**	NJ	NUP	N	NF	365000	400000
95	145	24	132	108	1.5	1.1	**NU 1019**	-	-	N	-	84000	110000
	170	32	151.5	113.5	2.1	2.1	**NU 219**	NJ	NUP	N	NF	165000	195000
	170	32	-	112.5	2.1	2.1	**NU 219E**	NJ	NUP	-	-	222000	259000

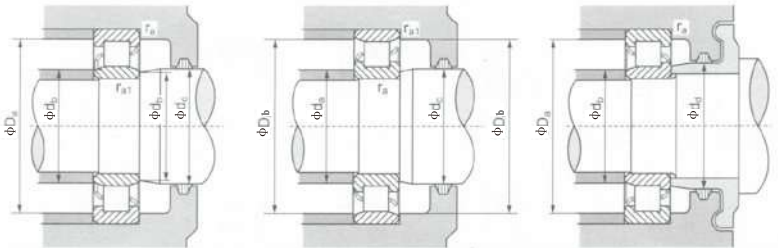


Limiting Speed (rpm)		Abutment and Fillet Dimensions (mm)									Weight (kg)
Grease	Oil	d_a (min)	d_b (min)	d_b (max)	d_c (min)	d_d (min)	D_a (max)	D_b (max)	D_b (min)	r_a (max)	r_{a1} (max)	
3800	4500	87	87	93	97	106	148	148	143	2	2	3.21
3400	4000	-	87	93	97	106	148	-	-	2	2	3.70
3400	4000	-	87	93	97	106	148	-	-	2	2	4.84
3400	4000	-	87	93	97	106	148	-	-	2	2	5.30
3400	4000	89	89	103	107	118	176	176	162	2.5	2.5	6.40
5300	6300	86.5	86	90	94	-	118	120	113.5	1	1	1.03
4500	5300	90	90	94	97	104	130	130	128	2	2	1.53
4000	4800	-	90	94	97	104	130	-	-	2	2	1.66
4000	4800	-	90	94	97	104	130	-	-	2	2	1.96
4000	4800	-	90	94	97	104	130	-	-	2	2	2.15
3600	4300	92	92	99	105	114	158	158	151	2	2	3.93
3200	3800	-	92	99	105	114	158	-	-	2	2	4.38
3200	3800	-	92	99	105	114	158	-	-	2	2	5.83
3200	3800	-	92	99	105	114	158	-	-	2	2	6.35
3200	3800	94	94	109	112	124	186	186	172	2.5	2.5	7.45
5000	6000	91.5	91	95	99	-	123	125	118.5	1	1	1.06
4300	5000	95	95	99	104	110	140	140	137	2	2	1.92
3800	4500	-	95	99	104	110	140	-	-	2	2	2.10
3800	4500	-	95	99	104	110	140	-	-	2	2	2.50
3800	4500	-	95	99	104	110	140	-	-	2	2	2.75
3400	4000	99	99	106	110	119	166	166	160	2.5	2.5	4.54
3000	3600	-	99	106	110	119	166	-	-	2.5	2.5	5.12
3000	3600	-	99	106	110	119	166	-	-	2.5	2.5	6.62
3000	3600	-	99	106	110	119	166	-	-	2.5	2.5	7.35
3000	3600	103	103	111	115	128	192	192	179	3	3	9.10
4800	5600	98	97	101	106	-	131.5	133.5	127.5	1.5	1	1.36
3800	4500	100	100	105	109	116	150	150	146	2	2	2.30
3400	4000	-	100	105	109	116	150	-	-	2	2	2.53
3600	4300	-	100	105	109	116	150	-	-	2	2	3.10
3400	4000	-	100	105	109	116	150	-	-	2	2	3.48
3200	3800	104	104	111	117	127	176	176	169	2.5	2.5	5.37
2500	3200	-	104	111	117	127	176	-	-	2.5	2.5	5.92
2800	3400	-	104	111	117	127	176	-	-	2.5	2.5	7.90
2600	3200	-	104	111	117	127	176	-	-	2.5	2.5	8.72
2800	3400	108	108	122	125	139	207	207	194	3	3	10.6
4500	5000	103	102	106	111	-	136.5	138.5	132.5	1.5	1	1.42
3600	4300	107	107	111	116	123	158	158	155	2	2	2.81
3200	4000	-	107	111	116	123	158	-	-	2	2	3.08

d: 95 ~ 120 mm



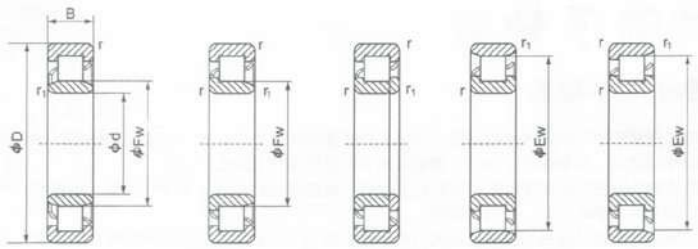
Principal Dimensions (mm)							Bearing Designations					Basic Load Ratings (N)	
d	D	B	Ew	Fw	r (min)	r1 (min)	NU	NJ	NUP	N	NF	Dynamic Cr	Static Cor
95	170	43	-	113.5	2.1	2.1	**NU 2219**	NJ	NUP	-	-	230000	298000
	170	43	-	112.5	2.1	2.1	**NU 2219E**	NJ	NUP	-	-	286000	370000
	200	45	173.5	121.5	3	3	**NU 319**	NJ	NUP	N	NF	258000	289000
	200	45	-	121.5	3	3	**NU 319E**	NJ	NUP	-	-	335000	385000
	200	67	-	121.5	3	3	**NU 2319**	NJ	NUP	-	-	370000	460000
	200	67	-	121.5	3	3	**NU 2319E**	NJ	NUP	-	-	460000	585000
	240	55	201.5	133.5	4	4	**NU 419**	NJ	NUP	N	NF	400000	445000
100	150	24	137	113	1.5	1.1	**NU 1020**	-	-	N	-	87000	116000
	180	34	160	120	2.1	2.1	**NU 220**	NJ	NUP	N	NF	183000	217000
	180	34	-	119	2.1	2.1	**NU 220E**	NJ	NUP	-	-	250000	305000
	180	46	-	120	2.1	2.1	**NU 2220**	NJ	NUP	-	-	257000	335000
	180	46	-	119	2.1	2.1	**NU 2220E**	NJ	NUP	-	-	335000	445000
	215	47	185.5	129.5	3	3	**NU 320**	NJ	NUP	N	NF	300000	335000
	215	47	-	127.5	3	3	**NU 320E**	NJ	NUP	-	-	380000	425000
	215	73	-	129.5	3	3	**NU 2320**	NJ	NUP	-	-	435000	545000
	215	73	-	127.5	3	3	**NU 2320E**	NJ	NUP	-	-	570000	715000
	250	58	211	139	4	4	**NU 420**	NJ	NUP	N	NF	445000	500000
105	160	26	145.5	119.5	2	1.1	**NU 1021**	-	-	N	-	101000	136000
	190	36	168.8	126.8	2.1	2.1	**NU 221**	NJ	NUP	N	NF	202000	241000
	225	49	195	135	3	3	**NU 321**	NJ	NUP	N	NF	340000	385000
	260	60	220.5	144.5	4	4	**NU 421**	NJ	NUP	N	NF	495000	555000
110	170	28	155	125	2	1.1	**NU 1022**	-	-	N	-	127000	166000
	200	38	178.5	132.5	2.1	2.1	**NU 222**	NJ	NUP	N	NF	240000	290000
	200	38	-	132.5	2.1	2.1	**NU 222E**	NJ	NUP	-	-	293000	365000
	200	53	-	132.5	2.1	2.1	**NU 2222**	NJ	NUP	-	-	320000	440000
	200	53	-	132.5	2.1	2.1	**NU 2222E**	NJ	NUP	-	-	385000	515000
	240	50	207	143	3	3	**NU 322**	NJ	NUP	N	NF	380000	435000
	240	50	-	143	3	3	**NU 322E**	NJ	NUP	-	-	450000	525000
	240	80	-	143	3	3	**NU 2322**	NJ	NUP	-	-	570000	730000
	240	80	-	143	3	3	**NU 2322E**	NJ	NUP	-	-	670000	880000
	280	65	235	155	4	4	**NU 422**	NJ	NUP	N	NF	545000	620000
120	180	28	165	135	2	1.1	**NU 1024**	-	-	N	-	131000	175000
	215	40	191.5	143.5	2.1	2.1	**NU 224**	NJ	NUP	N	NF	260000	320000
	215	40	-	143.5	2.1	2.1	**NU 224E**	NJ	NUP	-	-	335000	420000
	215	58	-	143.5	2.1	2.1	**NU 2224**	NJ	NUP	-	-	365000	490000
	215	58	-	143.5	2.1	2.1	**NU 2224E**	NJ	NUP	-	-	450000	620000
	260	55	226	154	3	3	**NU 324**	NJ	NUP	N	NF	445000	510000
	260	55	-	154	3	3	**NU 432E**	NJ	NUP	-	-	525000	610000



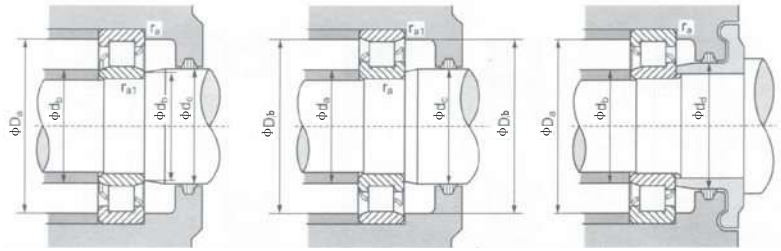
Limiting Speed (rpm)		Abutment and Fillet Dimensions (mm)										Weight (kg)
Grease	Oil	d_a (min)	d_b (min)	d_b (max)	d_c (min)	d_d (min)	D_a (max)	D_b (max)	D_b (min)	r_a (max)	r_{a1} (max)	
3400	4000	-	107	111	116	123	158	-	-	2	2	3.85
3200	4000	-	107	111	116	123	158	-	-	2	2	4.23
3000	3600	109	109	119	124	134	186	186	178	2.5	2.5	6.23
2400	3000	-	109	119	124	134	186	-	-	2.5	2.5	6.92
2600	3200	-	109	119	124	134	186	-	-	2.5	2.5	9.39
2400	3000	-	109	119	124	134	186	-	-	2.5	2.5	10.3
2600	3200	113	113	132	136	149	222	222	204	3	3	14.0
4300	5000	108	107	111	116	-	141.5	143.5	137.5	1.5	1	1.48
3400	4000	112	112	117	122	130	168	168	164	2	2	3.30
3200	3800	-	112	117	122	130	168	-	-	2	2	3.73
3200	3800	-	112	117	122	130	168	-	-	2	2	4.67
3200	3800	-	112	117	122	130	168	-	-	2	2	5.13
2800	3400	114	114	125	132	143	201	201	190	2.5	2.5	7.70
2200	2800	-	114	125	132	143	201	-	-	2.5	2.5	8.45
2400	3000	-	114	125	132	143	201	-	-	2.5	2.5	11.9
2200	2800	-	114	125	132	143	201	-	-	2.5	2.5	12.9
2400	3000	118	118	137	141	156	232	232	213	3	3	14.4
4000	4800	114	112	118	122	-	150	153.5	146.5	2	1	1.88
3200	3800	117	117	124	129	137	178	178	173	2	2	4.03
2600	3200	119	119	132	137	149	211	211	199	2.5	2.5	8.73
2200	2800	123	123	143	147	162	242	242	223	3	3	19.5
3800	4500	119	117	124	128	-	160	163.5	156	2	1	2.34
3000	3600	122	122	130	135	144	188	188	182	2	2	4.64
2600	3200	-	122	130	135	144	188	-	-	2	2	5.17
2800	3400	-	122	130	135	144	188	-	-	2	2	6.93
2600	3200	-	122	130	135	144	188	-	-	2	2	7.32
2400	3000	124	124	140	145	158	226	226	211	2.5	2.5	10.4
2200	2800	-	124	140	145	158	226	-	-	2.5	2.5	11.1
2000	2600	-	124	140	145	158	226	-	-	2.5	2.5	18.8
2000	2600	-	124	140	145	158	226	-	-	2.5	2.5	18.5
2000	2600	128	128	153	157	173	262	262	237	3	3	20.5
3400	4000	129	127	134	138	-	170	173.5	166	2	1	2.51
2800	3400	132	132	141	146	156	203	203	196	2	2	5.61
2400	3000	-	132	141	146	156	203	-	-	2	2	6.25
2600	3200	-	132	141	146	156	203	-	-	2	2	8.56
2400	3000	-	132	141	146	156	203	-	-	2	2	9.35
2200	2800	134	134	151	156	171	246	246	230	2.5	2.5	15.4
1900	2400	-	134	151	156	171	246	-	-	2.5	2.5	15.2

Single Row Cylindrical Roller Bearings UBC

d: 120 ~ 160 mm



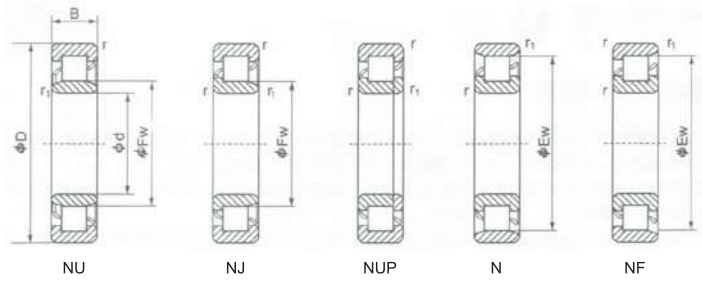
NU NJ NUP N NF



Principal Dimensions (mm)							Bearing Designations					Basic Load Ratings (N)		Limiting Speed (rpm)		Abutment and Fillet Dimensions (mm)										Weight (kg)
d	D	B	Ew	Fw	r (min)	r1 (min)	NU	NJ	NUP	N	NF	Dynamic Cr	Static Cor	Grease	Oil	d_a (min)	d_b (min)	d_b (max)	d_c (min)	d_d (min)	D_a (max)	D_b (max)	D_b (min)	r_a (max)	r_{a1} (max)	
120	260	86	-	154	3	3	**NU 2324**	NJ	NUP	-	-	710000	915000	1900	2400	-	134	151	156	171	246	-	-	2.5	2.5	23.1
	260	86	-	154	3	3	**NU 2324E**	NJ	NUP	-	-	790000	1030000	1900	2400	-	134	151	156	171	246	-	-	2.5	2.5	22.9
	310	72	260	170	5	5	**NU 424**	NJ	NUP	N	NF	670000	770000	1900	2400	142	142	168	172	190	288	288	262	4	4	28.7
130	200	33	182	148	2	1.1	**NU 1026**	-	-	N	-	160000	217000	3200	3800	139	137	146	151	-	190	193.5	183	2	1	3.83
	230	40	204	156	3	3	**NU 226**	NJ	NUP	N	NF	270000	340000	2600	3200	144	144	151	158	168	216	216	208	2.5	2.5	7.60
	230	40	-	153.5	3	3	**NU 226E**	NJ	NUP	-	-	365000	455000	2200	2800	-	144	151	158	168	216	-	-	2.5	2.5	7.50
	230	64	-	156	3	3	**NU 2226**	NJ	NUP	-	-	380000	530000	2200	2800	-	144	151	158	168	216	-	-	2.5	2.5	11.2
	230	64	-	153.5	3	3	**NU 2226E**	NJ	NUP	-	-	530000	735000	2200	2800	-	144	151	158	168	216	-	-	2.5	2.5	12.5
	280	58	243	167	4	4	**NU 326**	NJ	NUP	N	NF	555000	665000	2000	2600	148	148	164	169	184	262	262	247	3	3	18.2
	280	58	-	167	4	4	**NU 326E**	NJ	NUP	-	-	615000	735000	1800	2200	-	148	164	169	184	262	-	-	3	3	18.5
	280	93	-	167	4	4	**NU 2326**	NJ	NUP	-	-	790000	1040000	1800	2200	-	148	164	169	184	262	-	-	3	3	29.1
	280	93	-	167	4	4	**NU 2326E**	NJ	NUP	-	-	920000	1230000	1800	2200	-	148	164	169	184	262	-	-	3	3	28.5
	340	78	285	185	5	5	**NU 426**	NJ	NUP	N	NF	820000	955000	1700	2200	152	152	183	187	208	318	318	287	4	4	36.9
140	210	33	192	158	2	1.1	**NU 1028**	-	-	N	-	170000	239000	3000	3600	149	147	156	161	-	200	203.5	193	2	1	4.07
	250	42	221	169	3	3	**NU 228**	NJ	NUP	N	NF	310000	420000	2400	3000	154	154	166	171	182	236	236	228	2.5	2.5	9.49
	250	42	-	169	3	3	**NU 228E**	NJ	NUP	-	-	390000	515000	2000	2600	-	154	166	171	182	236	-	-	2.5	2.5	8.90
	250	68	-	169	3	3	**NU 2228**	NJ	NUP	-	-	465000	670000	2000	2600	-	154	166	171	182	236	-	-	2.5	2.5	14.3
	250	68	-	169	3	3	**NU 2228E**	NJ	NUP	-	-	570000	835000	2000	2600	-	154	166	171	182	236	-	-	2.5	2.5	14.9
	300	62	260	180	4	4	**NU 328**	NJ	NUP	N	NF	595000	745000	1900	2400	158	158	176	182	198	282	282	268	3	3	22.4
	300	62	-	180	4	4	**NU 328E**	NJ	NUP	-	-	660000	795000	1800	2200	-	158	176	182	198	282	-	-	3	3	21.8
	300	102	-	180	4	4	**NU 2328**	NJ	NUP	-	-	920000	1250000	1800	2200	-	158	176	182	198	282	-	-	3	3	36.8
	300	102	-	180	4	4	**NU 2328E**	NJ	NUP	-	-	1020000	1380000	1800	2200	-	158	176	182	198	282	-	-	3	3	35.9
	360	82	302	198	5	5	**NU 428**	NJ	NUP	N	NF	875000	1020000	1500	1900	162	162	195	200	222	338	338	304	4	4	48.0
150	225	35	205.5	169.5	2.1	1.5	**NU 1030**	-	-	N	-	189000	270000	2600	3200	161	158.5	167	173	-	213	217	207	2	1.5	4.90
	270	45	238	182	3	3	**NU 230**	NJ	NUP	N	NF	375000	490000	2000	2600	164	164	179	184	196	256	256	245	2.5	2.5	11.9
	270	45	-	182	3	3	**NU 230E**	NJ	NUP	-	-	445000	595000	1900	2400	-	164	179	184	196	256	-	-	2.5	2.5	11.5
	270	73	-	182	3	3	**NU 2230**	NJ	NUP	-	-	545000	800000	1900	2400	-	164	179	184	196	256	-	-	2.5	2.5	18.7
	270	73	-	182	3	3	**NU 2230E**	NJ	NUP	-	-	660000	990000	1900	2400	-	164	179	184	196	256	-	-	2.5	2.5	18.5
	320	65	277	193	4	4	**NU 330**	NJ	NUP	N	NF	660000	805000	1700	2000	168	168	190	195	213	302	302	287	3	3	26.5
	320	65	-	193	4	4	**NU 330E**	NJ	NUP	-	-	755000	920000	1600	1900	-	168	190	195	213	302	-	-	3	3	28.8
	320	108	-	193	4	4	**NU 2330**	NJ	NUP	-	-	1020000	1400000	1700	2000	-	168	190	195	213	302	-	-	3	3	44.7
	320	108	-	193	4	4	**NU 2330E**	NJ	NUP	-	-	1160000	1600000	1600	1900	-	168	190	195	213	302	-	-	3	3	48.2
	380	85	317	213	5	5	**NU 430**	NJ	NUP	N	NF	930000	1120000	1300	1600	172	172	210	216	237	358	358	319	4	4	54.5
160	240	38	220	180	2.1	1.5	**NU 1032E**	-	-	N	-	229000	325000	2400	3000	171	168.5	178	184	-	228	232	220	2	1.5	6.01
	290	48	255	195	3	3	**NU 232**	NJ	NUP	N	NF	425000	570000	1800	2200	174	174	192	197	210	276	276	262	2.5	2.5	14.5
	290	48	-	195	3	3	**NU 232E**	NJ	NUP	-	-	500000	665000	1700	2000	-	174	192	197	210	276	-	-	2.5	2.5	15.6
	290	80	-	195	3	3	**NU 2232**	NJ	NUP	-	-	630000	940000	1800	2200	-	174	192	197	210	276	-	-	2.5	2.5	24.1
	290	80	-	193	3	3	**NU 2232E**	NJ	NUP	-	-	810000	1190000	1700	2000	-	174	192	197	210	276	-	-	2.5	2.5	25.9

Single Row Cylindrical Roller Bearings UBC

d: 160 ~ 240 mm



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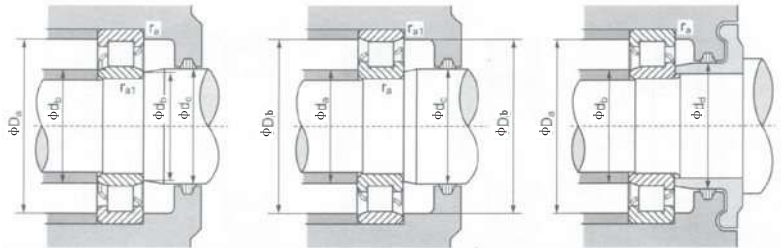
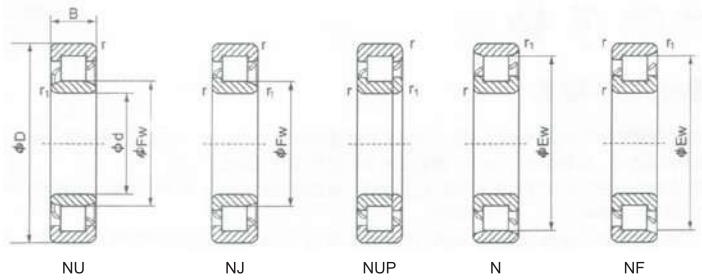


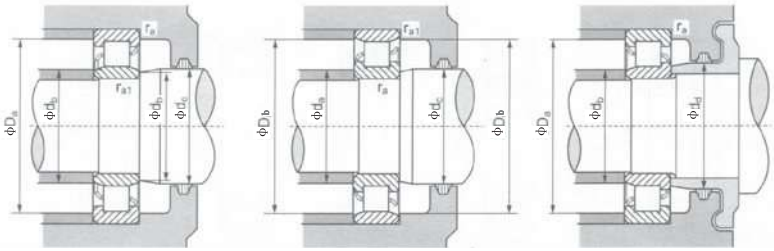
Principal Dimensions (mm)							Bearing Designations					Basic Load Ratings (N)		Limiting Speed (rpm)		Abutment and Fillet Dimensions (mm)										Weight (kg)
d	D	B	Ew	Fw	r (min)	r1 (min)	NU	NJ	NUP	N	NF	Dynamic Cr	Static Cor	Grease	Oil	d_a (min)	d_b (min)	d_b (max)	d_c (min)	d_d (min)	D_a (max)	D_b (max)	D_b (min)	r_a (max)	r_{a1} (max)	
160	340	68	292	208	4	4	**NU 332**	NJ	NUP	N	NF	695000	875000	1600	1900	178	178	200	211	228	322	322	304	3	3	31.2
	340	68	-	204	4	4	**NU 332E**	NJ	NUP	-	-	855000	1050000	1700	2000	-	178	200	211	228	322	-	-	3	3	34.1
	340	114	-	208	4	4	**NU 2332**	NJ	NUP	-	-	1040000	1460000	1500	1800	-	178	200	211	228	322	-	-	3	3	52.5
	340	114	-	204	4	4	**NU 2332E**	NJ	NUP	-	-	1310000	1820000	1600	1900	-	178	200	211	228	322	-	-	3	3	57.2
170	260	42	237	193	2.1	2.1	**NU 1034**	-	-	N	-	276000	400000	2200	2800	181	182	190	197	-	248	249	237	2	2	8.02
	310	52	272	208	4	4	**NU 234**	NJ	NUP	N	NF	475000	635000	1800	2200	188	188	204	211	223	292	292	284	3	3	17.9
	310	52	-	207	4	4	**NU 234E**	NJ	NUP	-	-	605000	800000	1900	2300	-	188	204	211	223	292	-	-	3	3	19.3
	310	86	-	208	4	4	**NU 2234**	NJ	NUP	-	-	725000	1100000	1800	2200	-	188	204	211	223	292	-	-	3	3	29.6
	310	86	-	205	4	4	**NU 2234E**	NJ	NUP	-	-	970000	1400000	1900	2300	-	188	204	211	223	292	-	-	3	3	31.9
	360	72	310	220	4	4	**NU 334**	NJ	NUP	N	NF	795000	1010000	1600	1800	188	188	216	223	241	342	342	314	3	3	37.1
	360	120	-	220	4	4	**NU 2334**	NJ	NUP	-	-	1170000	1630000	1400	1700	-	188	216	223	241	342	-	-	3	3	62.7
180	280	46	255	205	2.1	2.1	**NU 1036**	-	-	N	-	340000	485000	2100	2600	191	192	203	209	-	268	269	256	2	2	10.8
	320	52	282	218	4	4	**NU 236**	NJ	NUP	N	NF	490000	675000	1700	2000	198	198	214	221	233	302	302	294	3	3	19.3
	320	52	-	217	4	4	**NU 236E**	NJ	NUP	-	-	625000	850000	1800	2200	-	198	214	221	233	302	-	-	3	3	20.5
	320	86	-	218	4	4	**NU 2236**	NJ	NUP	-	-	775000	1210000	1700	2000	-	198	214	221	233	302	-	-	3	3	30.4
	320	86	-	215	4	4	**NU 2236E**	NJ	NUP	-	-	1010000	1510000	1800	2200	-	198	214	221	233	302	-	-	3	3	34.5
	380	75	328	232	4	4	**NU 336**	NJ	NUP	N	NF	900000	1150000	1500	1800	198	198	227	235	255	362	362	332	3	3	42.8
	380	126	-	232	4	4	**NU 2336**	NJ	NUP	-	-	1310000	1860000	1300	1600	-	198	227	235	255	362	-	-	3	3	73.1
190	290	46	265	215	2.1	2.1	**NU 1038**	-	-	N	-	345000	510000	2000	2600	201	202	213	219	-	278	279	266	2	2	11.2
	340	55	299	231	4	4	**NU 238**	NJ	NUP	N	NF	555000	770000	1600	1900	208	208	227	234	247	322	322	311	3	3	22.6
	340	55	-	230	4	4	**NU 238E**	NJ	NUP	-	-	695000	955000	1700	2000	-	208	227	234	247	322	-	-	3	3	26.0
	340	92	-	231	4	4	**NU 2238**	NJ	NUP	-	-	825000	1290000	1600	1900	-	208	227	234	247	322	-	-	3	3	37.5
	340	92	-	228	4	4	**NU 2238E**	NJ	NUP	-	-	1100000	1670000	1700	2000	-	208	227	234	247	322	-	-	3	3	45.2
	400	78	345	245	5	5	**NU 338**	NJ	NUP	N	NF	975000	1260000	1400	1700	212	212	240	248	268	378	378	349	4	4	49.4
	400	132	-	245	5	5	**NU 2338**	NJ	NUP	-	-	1440000	2070000	1200	1500	-	212	240	248	268	378	-	-	4	4	85.0
200	310	51	281	229	2.1	2.1	**NU 1040**	-	-	N	-	375000	555000	1900	2400	211	212	226	233	-	298	299	283	2	2	14.4
	360	58	316	244	4	4	**NU 240**	NJ	NUP	N	NF	615000	865000	1500	1800	218	218	240	247	261	342	342	328	3	3	26.8
	360	58	-	243	4	4	**NU 240E**	NJ	NUP	-	-	765000	1060000	1600	1900	-	218	240	247	261	342	-	-	3	3	29.5
	360	98	-	244	4	4	**NU 2240**	NJ	NUP	-	-	920000	1440000	1500	1800	-	218	240	247	261	342	-	-	3	3	45.4
	360	98	-	241	4	4	**NU 2240E**	NJ	NUP	-	-	1210000	1870000	1500	1700	-	218	240	247	261	342	-	-	3	3	52.3
	420	80	360	260	5	5	**NU 340**	NJ	NUP	N	NF	975000	1270000	1300	1600	222	222	254	263	283	398	398	364	4	4	55.8
	420	138	-	260	5	5	**NU 2340**	NJ	NUP	-	-	1440000	2090000	1100	1400	-	222	254	263	283	398	-	-	4	4	96.8
220	340	56	310	250	3	3	**NU 1044**	-	-	N	-	480000	715000	1800	2300	233	234	248	254	-	326	327	311	2.5	2.5	18.8
	400	65	350	270	4	4	**NU 244**	NJ	NUP	N	NF	760000	1080000	1500	1700	238	238	266	273	289	382	382	362	3	3	37.8
	400	108	-	270	4	4	**NU 2244**	NJ	NUP	-	-	1130000	1810000	1400	1700	-	238	266	273	289	382	-	-	3	3	61.8
	460	88	396	284	5	5	**NU 344**	NJ	NUP	N	NF	1200000	1570000	1200	1500	242	242	279	287	307	438	438	400	4	4	73.6
240	360	56	330	270	3	3	**NU 1048**	-	-	N	-	500000	755000	1700	2100	253	254	268	275	-	346	347	331	2.5	2.5	20.4
	440	72	385	295	4	4	**NU 248**	NJ	NUP	N	NF	935000	1340000	1400	1600	258	258	293	298	316	422	422	397	3	3	51.1

d: 240 ~ 500 mm



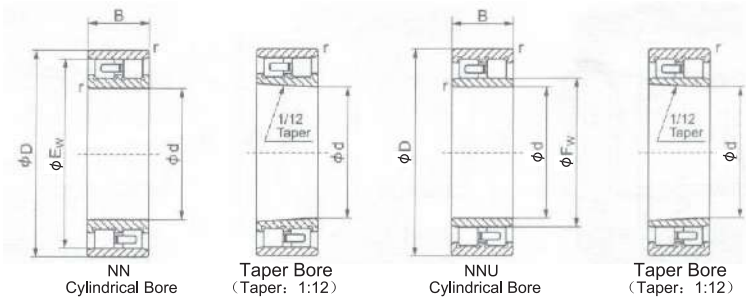
NU NJ NUP N NF

Principal Dimensions (mm)							Bearing Designations					Basic Load Ratings (N)	
d	D	B	Ew	Fw	r (min)	r1 (min)	NU	NJ	NUP	N	NF	Dynamic Cr	Static Cor
240	440	120	-	295	4	4	**NU 2248**	NJ	NUP	-	-	1430000	2320000
	500	95	430	310	5	5	**NU 348**	NJ	NUP	N	NF	1430000	1950000
260	400	65	364	296	4	4	**NU 1052**	-	-	N	-	620000	955000
	480	80	420	320	5	5	**NU 252**	NJ	NUP	N	NF	1140000	1660000
	480	130	-	320	5	5	**NU 2252**	NJ	NUP	-	-	1780000	2930000
	540	102	464	336	6	6	**NU 352**	NJ	NUP	N	NF	1620000	2230000
280	420	65	384	316	4	4	**NU 1056**	-	-	N	-	630000	1000000
	500	80	440	340	5	5	**NU 256**	NJ	NUP	N	NF	1140000	1680000
300	460	74	420	340	4	4	**NU 1060**	-	-	N	-	845000	1340000
	540	85	476	364	5	5	**NU 260**	NJ	NUP	N	NF	1400000	2070000
320	480	74	440	360	4	4	**NU 1064**	-	-	N	-	870000	1410000
	580	92	510	390	5	5	**NU 264**	NJ	NUP	N	NF	1600000	2390000
340	520	82	475	385	5	5	**NU 1068**	-	-	N	-	1050000	1670000
360	540	82	495	405	5	5	**NU 1072**	-	-	N	-	1070000	1750000
380	560	82	515	425	5	5	**NU 1076**	-	-	N	-	1100000	1840000
400	600	90	550	450	5	5	**NU 1080**	-	-	N	-	1350000	2280000
420	620	90	570	470	5	5	**NU 1084**	-	-	N	-	1390000	2380000
440	650	94	597	493	6	6	**NU 1088**	-	-	N	-	1530000	2430000
460	680	100	624	516	6	6	**NU 1092**	-	-	N	-	1630000	2630000
480	700	100	644	536	6	6	**NU 1096**	-	-	N	-	1590000	2750000
500	720	100	664	556	6	6	**NU 10/500**	-	-	N	-	1700000	2870000



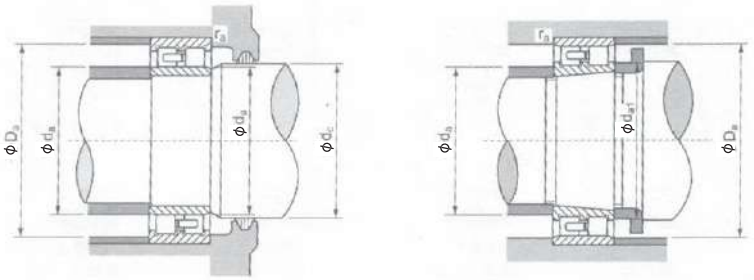
Limiting Speed (rpm)		Abutment and Fillet Dimensions (mm)									Weight (kg)
Grease	Oil	d_a (min)	d_b (min)	d_b (max)	d_c (min)	d_d (min)	D_a (max)	D_b (max)	D_b (min)	r_a (max)	r_{a1} (max)	
1300	1600	-	258	293	298	316	422	-	-	3	3	83.5
1100	1300	262	262	305	313	333	478	478	434	4	4	93.0
1600	1800	278	278	292	300	-	382	382	365	3	3	29.6
1300	1500	282	282	318	323	343	458	458	432	4	4	69.0
1100	1300	-	282	318	323	343	458	458	-	4	4	106
1000	1200	288	288	331	339	359	512	512	468	5	5	117
1500	1700	298	298	313	320	-	402	402	385	3	3	33.0
1200	1400	302	302	336	343	365	478	478	452	4	4	71.5
1400	1500	318	318	337	344	-	442	442	421	3	3	44.7
1100	1300	322	322	361	368	392	518	518	487	4	4	88.9
1300	1400	338	338	356	365	-	462	462	441	3	3	49.3
1000	1200	342	342	386	393	419	558	558	522	4	4	113
1200	1300	362	362	381	390	-	498	498	476	4	4	65.9
1100	1250	382	382	401	410	-	518	518	496	4	4	68.8
1000	1200	402	402	421	430	-	538	538	516	4	4	72.3
950	1100	422	422	446	455	-	578	578	551	4	4	92.5
900	1100	422	422	466	475	-	598	598	571	4	4	97.6
850	1050	468	468	489	498	-	622	622	598	5	5	112
800	1000	488	488	512	520	-	652	652	625	5	5	130
780	950	508	508	532	541	-	672	672	645	5	5	135
750	900	528	528	552	561	-	692	692	665	5	5	140

d: 25 ~ 180 mm



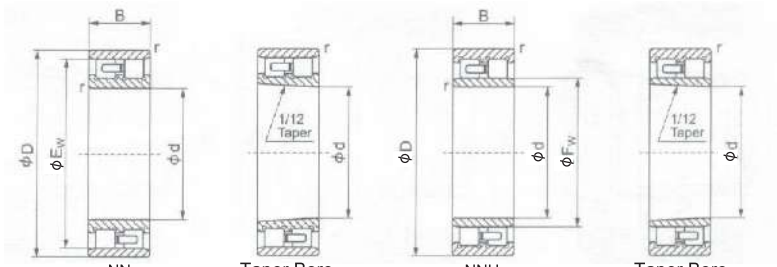
NN Cylindrical Bore | Taper Bore (Taper: 1:12) | NNU Cylindrical Bore | Taper Bore (Taper: 1:12)

Principal Dimensions (mm)						Bearing Designations		Basic Load Ratings (N)	
d	D	B	Ew	Fw	r (min)	Cylindrical Bore	Tapered Bore	Dynamic Cr	Static Cor
25	47	16	41.3		0.6	**NN3005**	**NN3005K**	25700	30000
30	55	19	48.5		1	**NN3006**	**NN3006K**	30500	37000
35	62	20	55		1	**NN3007**	**NN3007K**	39000	50000
40	68	21	61		1	**NN3008**	**NN3008K**	43000	55500
45	75	23	67.5		1	**NN3009**	**NN3009K**	49500	65500
50	80	23	72.5		1	**NN3010**	**NN3010K**	52500	72500
55	90	26	81		1.1	**NN3011**	**NN3011K**	69000	96500
60	95	26	86.1		1.1	**NN3012**	**NN3012K**	73000	106000
65	100	26	91		1.1	**NN3013**	**NN3013K**	76500	116000
70	110	30	100		1.1	**NN3014**	**NN3014K**	97000	148000
75	115	30	105		1.1	**NN3015**	**NN3015K**	96000	149000
80	125	34	113		1.1	**NN3016**	**NN3016K**	118000	186000
85	130	34	118		1.1	**NN3017**	**NN3017K**	125000	201000
90	140	37	127		1.5	**NN3018**	**NN3018K**	142000	228000
95	145	37	132		1.5	**NN3019**	**NN3019K**	150000	246000
100	140	40	-	113	1.1	**NNU4920**	**NNU4920K**	155000	305000
	150	37	137	-	1.5	**NN3020**	**NN3020K**	156000	265000
105	145	40	-	118	1.1	**NNU4921**	**NNU4921K**	161000	325000
	160	41	146	-	2	**NN3021**	**NN3021K**	197000	320000
110	150	40	-	123	1.1	**NNU4922**	**NNU4922K**	165000	335000
	170	45	155	-	2	**NN3022**	**NN3022K**	227000	375000
120	165	45	-	134.5	1.1	**NNU4924**	**NNU4924K**	183000	360000
	180	46	165	-	2	**NN3024**	**NN3024K**	238000	405000
130	180	50	-	146	1.5	**NNU4926**	**NNU4926K**	275000	565000
	200	52	182	-	2	**NU3026**	**NU3026K**	283000	475000
140	190	50	-	156	1.5	**NNU4928**	**NNU4928K**	281000	585000
	210	53	192	-	2	**NU3028**	**NU3028K**	297000	515000
150	210	60	-	168.5	2	**NNU4930**	**NNU4930K**	350000	715000
	225	56	206	-	2.1	**NU3030**	**NU3030K**	335000	585000
160	220	60	-	178.5	2	**NNU4932**	**NNU4932K**	365000	760000
	240	60	219	-	2.1	**NU3032**	**NU3032K**	370000	660000
170	230	60	-	188.5	2	**NNU4934**	**NNU4934K**	375000	805000
	260	67	236	-	2.1	**NU3034**	**NU3034K**	450000	805000
180	250	69	-	202	2	**NNU4936**	**NNU4936K**	480000	1020000



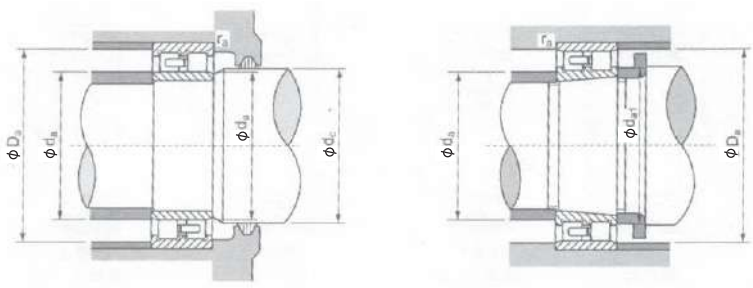
Limiting Speed (rpm)		Abutment and Fillet Dimensions (mm)							Weight (kg)
		da		d_{a1}	d_c	Da		r_a	
Grease	Oil	(min)	(max)	(min)	(min)	(max)	(min)	(max)	
15000	17000	30		30		42	41.8	0.6	0.123
12000	15000	36		37		49	49	1	0.199
11000	13000	41		42		56	56	1	0.258
9800	11000	46		48		62	62	1	0.312
8800	10000	51		52		69	69	1	0.405
8200	9600	56		58		74	74	1	0.454
7300	8600	62		64		83	82	1	0.651
6800	8000	67		68		88	87	1	0.704
6400	7600	72		74		93	92	1	0.758
5700	6800	77		78		103	101	1	1.04
5500	6400	82		84		108	106	1	1.14
5000	6000	87		90		118	114	1	1.52
4800	5600	92		96		123	119	1	1.61
4500	5200	98.5		100		131.5	129	1.5	2.07
4300	5000	103.5		106		136.5	134	1.5	2.17
4200	5000	106.5	111	110	115	133.5	-	1	1.77
4000	4700	108.5	-	112	-	141.5	139	1.5	2.26
4000	4800	111.5	116	115	120	138.5	-	1	1.85
3800	4400	115	-	116	-	150	148	2	2.89
3900	4600	116.5	121	120	125	143.5	-	1	1.93
3600	4200	120	-	122	-	160	157	2	3.68
3500	4200	126.5	133	130	137	158.5	-	1	2.65
3300	3900	130	-	132	-	170	167	2	3.98
3200	3800	138	144	142	148	172	-	1.5	3.55
3000	3500	140	-	144	-	190	183	2	5.92
3000	3600	148	154	151	158	182	-	1.5	3.80
2800	3300	150	-	154	-	200	194	2	6.44
2700	3300	159	166	162	171	201	-	2	5.95
2600	3100	162	-	164	-	213	208	2	7.81
2600	3100	169	176	172	182	211	-	2	6.25
2500	2900	172	-	174	-	228	221	2	8.92
2400	2900	179	186	182	192	221	-	2	6.60
2300	2700	182	-	184	-	248	238	2	12.6
2200	2700	189	199	194	205	241	-	2	9.50

d: 180 ~ 320 mm

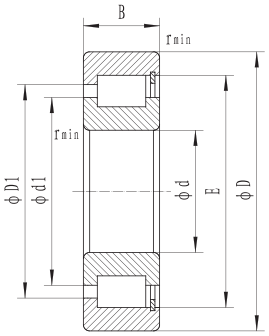


NN Cylindrical Bore | Taper Bore (Taper: 1:12) | NNU Cylindrical Bore | Taper Bore (Taper: 1:12)

Principal Dimensions (mm)						Bearing Designations		Basic Load Ratings (N)	
d	D	B	Ew	Fw	r (min)	Cylindrical Bore	Tapered Bore	Dynamic Cr	Static Cor
180	280	74	255		2.1	**NN3036**	**NN3036K**	560000	995000
190	260	69	-	212	2	**NNU4938**	**NNU4938K**	485000	1060000
	290	75	265	-	2.1	**NN3038**	**NN3038K**	590000	1080000
200	280	80	-	225	2.1	**NNU4940**	**NNU4940K**	570000	1220000
	310	82	282	-	2.1	**NN3040**	**NN3040K**	650000	1170000
220	300	80	-	245	2.1	**NNU4944**	**NNU4944K**	595000	1330000
	340	90	310	-	3	**NN3044**	**NN3044K**	810000	1480000
240	320	80	-	265	2.1	**NNU4948**	**NNU4948K**	610000	1410000
	360	92	330	-	3	**NN3048**	**NN3048K**	850000	1600000
260	360	100	-	292	2.1	**NNU4952**	**NNU4952K**	925000	2100000
	400	104	364	-	4	**NN3052**	**NN3052K**	1080000	2070000
280	380	100	-	312	2.1	**NNU4956**	**NNU4956K**	950000	2230000
	420	106	384	-	4	**NN3056**	**NN3056K**	1080000	2080000
300	420	118	-	339	3	**NNU4960**	**NNU4960K**	1220000	2880000
	460	118	418	-	4	**NN3060**	**NN3060K**	1430000	2740000
320	440	118	-	359	3	**NNU4964**	**NNU4964K**	1270000	3050000
	480	121	438	-	4	**NN3064**	**NN3064K**	1430000	2750000

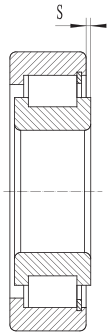


Limiting Speed (rpm)		Abutment and Fillet Dimensions (mm)							Weight (kg)
Grease	Oil	da		d_{a1}	d_c	Da		r_a	
		(min)	(max)	(min)	(min)	(max)	(min)	(max)	
2100	2500	192	-	196	-	268	257	2	16.6
2100	2600	199	209	204	215	251	-	2	10.0
2000	2400	202	-	206	-	278	267	2	17.5
2000	2400	211	222	214	228	269	-	2	10.1
1900	2200	212	-	216	-	298	285	2	21.6
1800	2200	231	242	234	248	289	-	2	15.5
1700	2000	234	-	238	-	326	313	2.5	28.4
1700	2000	251	262	254	269	309	-	2	17.0
1600	1900	254	-	256	-	346	333	2.5	31.8
1500	1800	271	288	276	296	349	-	2	28.3
1400	1700	278	-	280	-	382	367	3	46.0
1400	1700	291	308	296	316	369	-	2.5	30.3
1300	1600	298	-	300	-	402	387	3	49.6
1300	1500	313	335	320	343	407	-	2.5	46.7
1200	1400	318	-	325	-	442	421	3	68.7
1200	1400	333	335	340	363	427	-	2.5	49.6
1200	1400	338	-	345	-	462	442	3	74.0

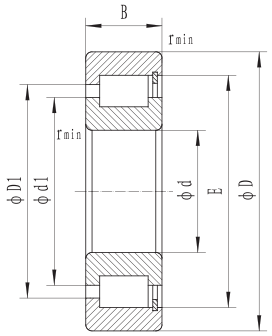


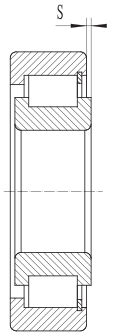
Principal Dimensions (mm)				Bearing Designations	Basic Load Ratings (N)		Limiting Speed (rpm)		Abutment and Fillet Dimensions (mm)					Weight (kg)
d	D	B	r_{min}		Dynamic Cr	Static Cor	Grease min^{-1}	Oil min^{-1}	E*	F	d_1	D_1	S**	
150	190	20	1.1	**NCF1830-VX**	115	220	700	1500	177	--	163	176	1.5	1.3
160	200	20	1.1	**NCF1832-VX**	120	230	670	1400	186.8	--	173	185	1.5	1.45
170	215	22	1.1	**NCF1834-VX**	145	260	630	1300	210.7	--	185	200	1.5	1.85
180	225	22	1.1	**NCF1836-VX**	153	282	600	1200	210	--	196	211	1.5	1.95
190	240	24	1.5	**NCF1838-VX**	175	320	560	1100	225	--	208	224	2	2.4
200	250	24	1.5	**NCF1840-VX**	180	335	560	1100	237.6	--	216.6	231.6	2	2.57
220	270	24	1.5	**NCF1844-VX**	187	365	530	1000	258.5	--	237.3	252.3	2	2.8
240	300	28	2	**NCF1848-VX**	268	500	480	900	287	--	260.5	281	2	4.29
260	320	28	2	**NCF1852-VX**	280	540	430	800	308	--	281	301.5	2	4.61
280	350	33	2	**NCF1856-VX**	360	680	400	750	334	--	304	327	2.5	6.89
300	380	38	2.1	**NCF1860-VX**	460	850	360	670	363	--	323.5	350.5	3	9.79
320	400	38	2.1	**NCF1864-VX**	475	910	340	630	383	--	344.5	371.5	3	10.36
340	420	38	2.1	**NCF1868-VX**	490	970	320	600	403	--	365.5	392.5	3	10.93
360	440	38	2.1	**NCF1872-VX**	510	1030	300	560	418.9	--	387	413,5	3	11.49
380	480	46	2.1	**NCF1876-VX**	660	1300	280	530	458	--	415.5	448	4	18.87
400	500	46	2.1	**NCF1880-VX**	670	1360	260	500	475	--	432	464.5	4	19.81
420	520	46	2.1	**NCF1884-VX**	690	1500	240	480	499	--	457	489.5	4	20.6
440	540	46	2.1	**NCF1888-VX**	705	1510	220	450	516	--	473.5	506	4	21.54
460	580	56	3	**NCF1892-VX**	945	1900	200	430	551	--	501.5	541	5	33.21
480	600	56	3	**NCF1896-VX**	970	1990	190	400	573.5	--	522	561	5	34.53
500	620	56	3	**NCF18/500-VX**	1000	2080	180	380	594	--	542	581.5	5	35.73
530	650	56	3	**NCF18/530-VX**	1130	2240	170	360	624.5	--	572	614	5	37.5
560	680	56	3	**NCF18/560-VX**	1190	2400	160	340	655	--	603	645	5	40.5
600	730	60	3	**NCF18/600-VX**	1220	2550	150	320	696	--	644	686	7	49.5
630	780	69	4	**NCF18/630-VX**	1280	2950	140	300	739	--	680	728	8	70
670	820	69	4	**NCF18/670-VX**	1320	3180	130	280	783	--	724	772	8	74

Single Row Full Complement Cylindrical Roller Bearings



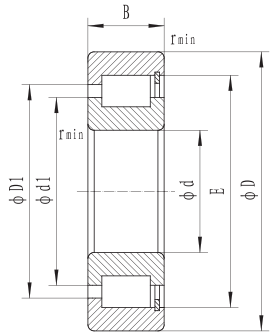
Single Row Full Complement Cylindrical Roller Bearings UBC

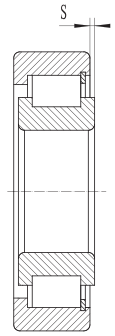




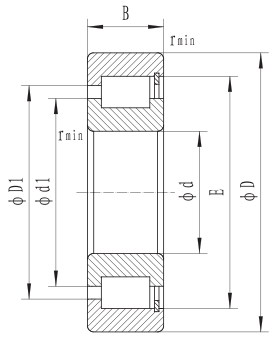
Principal Dimensions (mm)				Bearing Designations	Basic Load Ratings (N)		Limiting Speed (rpm)		Abutment and Fillet Dimensions (mm)					Weight (kg)
d	D	B	r_{min}		Dynamic Cr	Static Cor	Grease min^{-1}	Oil min^{-1}	E*	F	d_1	D_1	S**	
710	870	74	4	**NCF18/710-VX**	1560	3780	120	260	831	--	766	818	8	90
750	920	78	5	**NCF18/750-VX**	1790	4350	110	240	880	--	810	867	8	110
25	52	18	1	**NCF2205-VX**	51	45	2850	5800	46.52	--	35.5	41.9	1	0.18
30	62	20	1	**NCF2206-VX**	70	65	2600	5000	55.19	--	42	50.6	1	0.3
35	72	23	1.1	**NCF2207-VX**	88	79	2350	4300	63.97	--	47	59.3	1	0.44
40	80	23	1.1	**NCF2208-VX**	97	93	2100	3900	70.94	--	54	66.3	1	0.55
45	85	23	1.1	**NCF2209-VX**	103	99,9	1850	3600	74.43	--	57.5	69.8	1	0.59
50	90	23	1.1	**NCF2210-VX**	109	113	1700	3300	81.4	--	64.4	76.7	1	0.64
55	100	25	1.5	**NCF2211-VX**	140	150	1550	3000	88.81	--	70	84.1	1	0.87
60	110	28	1.5	**NCF2212-VX**	169	180	1450	2700	99.17	--	76.8	93.9	1.5	1.18
65	120	31	1.5	**NCF2213-VX**	198	214	1350	2550	106.25	--	82.3	100.7	1.5	1.57
70	125	31	1.5	**NCF2214-VX**	184	227	1250	2400	111.45	--	87	105.2	1.5	1.66
75	130	31	1.5	**NCF2215-VX**	190	241	1150	2250	116.2	--	91.8	110	1.5	1.75
80	140	33	2	**NCF2216-VX**	226	285	1050	2100	126.3	--	98.6	119.3	1.5	2.15
85	150	36	2	**NCF2217-VX**	255	325	980	1950	133.75	--	104.4	126.3	1.5	2.74
90	160	40	2	**NCF2218-VX**	290	370	920	1800	141.15	--	110.2	133.3	2,5	3.48
95	170	43	2.1	**NCF2219-VX**	340	435	860	1700	155.95	--	122	147.3	2,5	4.17
100	180	46	2.1	**NCF2220-VX**	395	520	800	1600	163.35	--	127.5	154.3	2,5	5.13
110	200	53	2.1	**NCF2222-VX**	455	590	750	1500	177.6	--	137	168	4	7.24
120	215	58	2.1	**NCF2224-VX**	540	730	700	1500	192.9	--	150.7	183	4	9.08
130	230	64	3	**NCF2226-VX**	630	860	650	1300	207.75	--	162.3	197	5	11.25
140	250	68	3	**NCF2228-VX**	720	1020	600	1200	222.55	--	173.9	211.1	5	14.47
150	270	73	3	**NCF2230-VX**	830	1180	550	1100	237.35	--	185.5	225.2	6	18.43
160	290	80	3	**NCF2232-VX**	1030	1490	500	1000	267.1	--	208.7	253.4	6	23
170	310	86	4	**NCF2234-VX**	1150	1680	470	950	281.9	--	220.3	267.4	7	28.65
180	320	86	4	**NCF2236-vx**	1190	1780	450	900	294	--	232.4	279.5	7	29.8

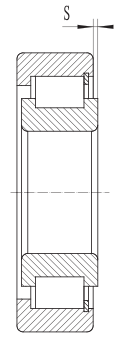
Single Row Full Complement Cylindrical Roller Bearings UBC





Principal Dimensions (mm)				Bearing Designations	Basic Load Ratings (N)		Limiting Speed (rpm)		Abutment and Fillet Dimensions (mm)					Weight (kg)
d	D	B	r_{min}		Dynamic Cr	Static Cor	Grease min^{-1}	Oil min^{-1}	E*	F	d_1	D_1	S**	
190	340	92	4	**NCF2238-VX**	1310	1920	420	850	311.5	--	243.5	295.5	9	35.65
200	360	98	4	**NCF2240-VX**	1420	2040	400	800	319.4	--	246.6	302.4	9	43.12
220	400	108	4	**NCF2244-VX**	1850	2750	370	760	366	--	277	349	9	59.5
60	85	16	1	**NCF2912-VX**	64	78	4800	9000	78.55	--	69	74.4	1	0.29
65	90	16	1	**NCF2913-VX**	68	84	4000	7500	85.24	--	75.7	81	1	0.31
70	100	19	1	**NCF2914-VX**	90	115	3600	6700	92.31	--	81.2	87.8	1	0.49
75	105	19	1	**NCF2915-VX**	91.5	120	3000	5600	97.41	--	86.3	92.8	1	0.52
80	110	19	1	**NCF2916-VX**	94.5	128	2600	5000	102.51	--	91.4	98	1	0.55
85	120	22	1.1	**NCF2917-VX**	120	160	2200	4500	109.58	--	96.4	105	1	0.81
90	125	22	1.1	**NCF2918-VX**	123	170	1900	4000	115.75	--	102	110.7	1	0.84
95	130	22	1.1	**NCF2919-VX**	135	180	1800	3800	122.25	--	106.7	117	1	0.86
100	140	24	1.1	**NCF2920-VX**	155	205	1600	3400	130.95	--	113.4	125.7	1.5	1.14
110	150	24	1.1	**NCF2922-VX**	158	215	1600	3400	141.5	--	124	136.2	1.5	1.23
120	165	27	1.1	**NCF2924-VX**	200	290	1400	3000	154.3	--	134.8	149	1.5	1.73
130	180	30	1.5	**NCF2926-VX**	240	355	1300	2800	167.15	--	146	161.1	2	2.33
140	190	30	1.5	**NCF2928-VX**	265	380	1200	2600	180	--	157	174	2	2.42
150	210	36	2	**NCF2930-VX**	345	490	1100	2400	196.75	--	169	189.6	2.5	3.77
160	220	36	2	**NCF2932-VX**	354	511	1100	2400	207.6	--	179.7	200.5	2.5	4
170	230	36	2	**NCF2934-VX**	365	540	1000	2200	218.45	--	190.6	211.3	2.5	4.3
180	250	42	2	**NCF2936-VX**	459	683	1000	2200	231.85	--	200.7	224	2.5	6.2
190	260	42	2	**NCF2938-VX**	511	775	900	1900	244.15	--	211.5	238.5	2	6.5
200	280	48	2.1	**NCF2940-VX**	613	945	850	1800	261.6	--	225.5	252.4	3	9.1
220	300	48	2.1	**NCF2944-VX**	655	1030	750	1600	282.44	--	246.3	273.2	3	9.9
240	320	48	2.1	**NCF2948-VX**	600	1120	700	1500	303.7	--	267.5	294.4	3	10.6
260	360	60	2.1	**NCF2952-VX**	780	1460	670	1400	333.7	--	291.5	323.4	5	18.5
280	380	60	2.1	**NCF2956-VX**	910	1750	630	1300	359.5	--	314	348.5	3.5	19.7

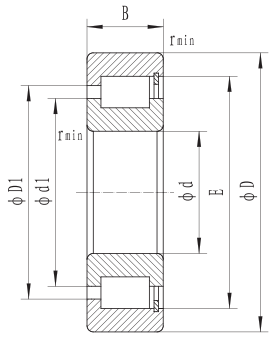


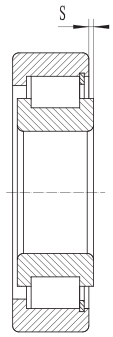


Principal Dimensions (mm)				Bearing Designations	Basic Load Ratings (N)		Limiting Speed (rpm)		Abutment and Fillet Dimensions (mm)					Weight (kg)
d	D	B	r_{min}		Dynamic Cr	Static Cor	Grease min^{-1}	Oil min^{-1}	E*	F	d_1	D_1	S**	
300	420	72	3	**NCF2960-VX**	1120	2170	600	1200	389.45	--	338	376.9	5	31.2
320	440	72	3	**NCF2964-VX**	1250	2300	560	1100	409.85	--	358.5	397.4	5	32.9
340	460	72	3	**NCF2968-VX**	1300	2490	560	1100	430.2	--	379	418.7	5	34.7
360	480	72	3	**NCF2972-VX**	1285	2655	530	1000	450.6	--	399.5	438.6	5	36.4
380	520	82	4	**NCF2976-VX**	1660	3315	480	900	486.7	--	426	472.1	5	52.1
400	540	82	4	**NCF2980-VX**	1720	3500	450	850	510.85	--	450	496.1	5	54.3
420	560	82	4	**NCF2984-VX**	1750	3600	400	750	522.95	--	462	509	5	56.9
440	600	95	4	**NCF2988-VX**	2100	4105	380	700	562	--	490	544.6	7	78.1
460	620	95	4	**NCF2992-VX**	2150	4250	340	630	576.3	--	504	559.6	7	81.1
480	650	100	5	**NCF2996-VX**	2400	4800	320	600	614.75	--	538	596.6	7	94.7
500	670	100	5	**NCF29/500-VX**	2450	5000	300	560	630	--	553	612.7	7	98.3
530	710	106	5	**NCF29/530-VX**	2700	6050	280	530	673	--	598	648	7	1.20
560	750	112	2	**NCF29/560-VX**	3050	6720	260	500	709	--	628	682	7	1.40
600	800	118	5	**NCF29/600-VX**	3400	7555	240	480	–	--	670	762	7	1.70
630	850	128	6	**NCF29/630-VX**	3750	8700	220	450	807	--	709	788	8	2.05
670	900	136	6	**NCF29/670-VX**	3900	8750	200	430	846	--	748	827	10	2.45
710	950	140	6	**NCF29/710-VX**	4000	9200	190	400	–	--	790	876	10	2.75
750	1000	145	6	**NCF29/750-VX**	4500	1700	180	380	938	--	832	918	11	3.15
25	47	16	0.6	**NCF3005-VX**	37.4	46.9	3600	7000	42.51	--	34.6	38.5	1.5	0.12
30	55	19	1	**NCF3006-VX**	49	63	3200	5600	49.6	--	40	45.4	2	0.2
35	62	20	1	**NCF3007-VX**	55	71.5	2800	5300	55.52	--	44.9	51.3	2	0.26
40	68	21	1	**NCF3008-VX**	66	83	2400	4500	61.74	--	50.5	57.1	2	0.31
45	75	23	1	**NCF3009-VX**	81	110	2000	4300	66.85	--	55.3	62.2	2	0.4
50	80	23	1	**NCF3010-VX**	86	120	1900	4000	72.33	--	59.1	67.7	2	0.43
55	90	26	1.1	**NCF3011-VX**	121	152	1600	3400	83.54	--	68.5	78.8	2	0.64
60	95	26	1.1	**NCF3012-VX**	125	156	1600	3200	78.55	--	71.7	82.1	2	0.69

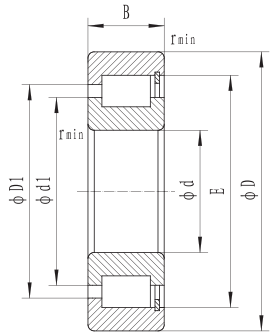
Single Row Full Complement Cylindrical Roller Bearings

Single Row Full Complement Cylindrical Roller Bearings UBC

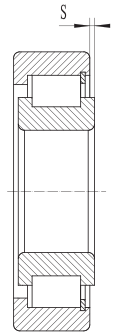


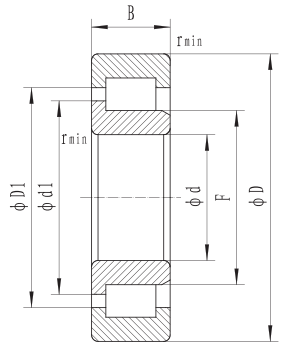


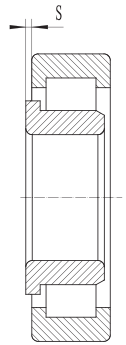
Principal Dimensions (mm)				Bearing Designations	Basic Load Ratings (N)		Limiting Speed (rpm)		Abutment and Fillet Dimensions (mm)						Weight (kg)
d	D	B	r_{min}		Dynamic Cr	Static Cor	Grease min^{-1}	Oil min^{-1}	E*	F	d_1	D_1	S**		
65	100	26	1.1	**NCF3013-VX**	131	162	1400	3000	85.24	–	78.1	88.4	2		0.73
70	110	30	1.1	**NCF3014-VX**	155	176	1300	2800	100.28	–	81.5	95.6	3		1.02
75	115	30	1.1	**NCF3015-VX**	165	195	1200	2600	107.9	–	89	103.2	3		1.06
80	125	34	1.1	**NCF3016-VX**	173	225	1100	2400	117.4	–	95	111.7	4		1.43
85	130	34	1.1	**NCF3017-VX**	179	235	1100	2200	121.95	–	99.4	116.1	4		1.51
90	140	37	1.5	**NCF3018-VX**	210	285	1000	2200	130.65	-	106.1	124.5	4		1.97
100	150	37	1.5	**NCF3020-VX**	219	300	950	2000	140.2	–	115.7	134	4		2.15
110	170	46	2	**NCF3022-VX**	284	390	950	2000	156.7	–	127.3	149.3	5.5		3.5
120	180	46	2	**NCF3024-VX**	299	430	850	1800	--	--	138.8	1607	5.5		3.8
130	200	52	2	**NCF3026-VX**	425	610	800	1700	--	--	148.6	175.5	5.5		5.65
140	210	53	2	**NCF3028-VX**	454	670	700	1500	--	--	162.2	189.5	5.5		6.04
150	225	56	2. 1	**NCF3030-VX**	479	705	670	1400	--	--	170	198	7		7.33
160	240	60	2. 1	**NCF3032-VX**	550	810	630	1300	--	--	184.8	215.8	7		8.8
170	260	67	2. 1	**NCF3034-VX**	705	1100	600	1100	--	--	198.1	232.7	7		12 2
180	280	74	2. 1	**NCF3036-VX**	820	1250	560	1000	--	--	212.2	249.4	7		16.1
190	290	75	2. 1	**NCF3038-VX**	850	1340	560	1100	--	--	221.8	259	9		17
200	310	82	2. 1	**NCF3040-VX**	960	1650	530	1000	--	--	236.6	276.2	9		21.8
220	340	90	3	**NCF3044-VX**	1200	1910	450	800	--	--	254.6	299.2	9		28.4
240	360	92	3	**NCF3048-VX**	1250	2000	430	850	--	--	277.5	322.1	11		30.9
260	400	104	4	**NCF3052-VX**	1650	2540	430	800	--	--	304	358.4	11		44.5
280	420	106	4	**NCF3056-VX**	1710	3000	380	700	--	--	319.5	372.9	11		48
300	460	118	4	**NCF3060-VX**	2050	3370	320	560	--	--	353.6	415.6	14		66.6
320	480	121	4	**NCF3064-VX**	2090	3500	300	560	--	--	369.5	430.1	14		72
340	520	133	5	**NCF3068-VX**	2500	4200	280	530	--	--	396.1	463.9	15		96
360	540	134	5	**NCF3072-VX**	2600	4450	260	500	503.45	--	414	481.6	15		101
380	560	135	5	**NCF3076-VX**	2650	4500	240	480	521.25	--	431.7	499.5	15		106



Principal Dimensions (mm)				Bearing Designations	Basic Load Ratings (N)		Limiting Speed (rpm)		Abutment and Fillet Dimensions (mm)					Weight (kg)
d	D	B	r_{min}		Dynamic Cr	Static Cor	Grease min^{-1}	Oil min^{-1}	E*	F	d_1	D_1	S**	
400	600	148	5	**NCF3080-VX**	3100	5500	220	450	558.52	--	462.5	535.1	16	145
420	650	150	5	**NCF3084-VX**	3300	6300	200	430	577.6	--	482	555	16	150
440	650	157	6	**NCF3088-VX**	3740	7400	190	400	590	--	507	582	16	175
460	680	163	6	**NCF3092-VX**	4150	8050	180	380	632.97	--	526	608	16	195
480	700	165	6	**NCF3096-VX**	4200	8500	170	360	654	--	546	628	16	205
500	720	167	6	**NCF30/500-VX**	4300	8700	170	360	676	--	568	650	16	215
530	780	185	6	**NCF30/530-VX**	5300	10600	150	320	732	--	610	702	16	300
560	820	195	6	**NCF30/560-VX**	5900	12000	140	300	770	--	642	738	16	345

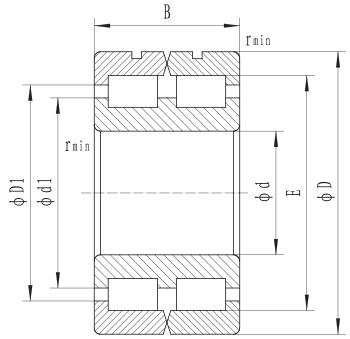




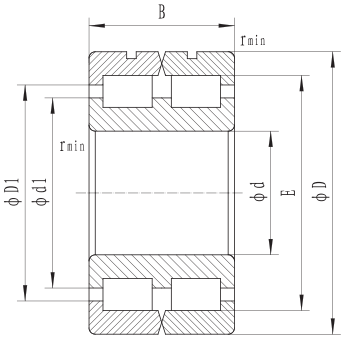


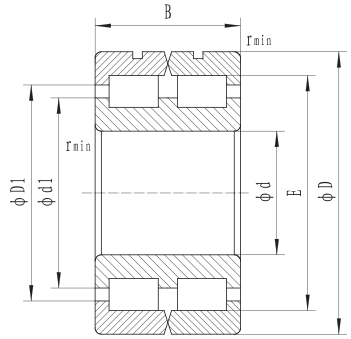
Principal Dimensions (mm)				Bearing Designations	Basic Load Ratings (N)		Limiting Speed (rpm)		Abutment and Fillet Dimensions (mm)					Weight (kg)
d	D	B	r_{min}		Dynamic Cr	Static Cor	Grease min^{-1}	Oil min^{-1}	E*	F	d_1	D_1	S**	
25	62	24	1.1	**NJG2305-VX-H**	73	59	3000	5300	--	31.74	36.7	47.5	2	0.37
30	72	27	1.1	**NJG2306-VX-H**	100	88	1900	4000	--	38.36	43.5	56	2	0.56
35	80	31	1.5	**NJG2307-VX-H**	127	111	1600	3400	--	44.75	50.7	65.8	2	0.74
40	90	33	1.5	**NJG2308-VX-H**	175	155	1400	3000	--	51.15	57.5	75.2	2	1.01
45	100	36	1.5	**NJG2309-VX-H**	181.5	164	1300	2800	--	56.14	62.5	80.3	3	1.37
50	110	40	2	**NJG2310-VX-H**	235	220	1100	2400	--	60.72	68.3	89.7	3	1.81
55	120	43	2	**NJG2311-VX-H**	273	255	1000	2200	--	67.14	75.5	99.3	3	2.28
60	130	46	2.1	**NJG2312-VX-H**	285	275	950	2000	--	86.7	82	105.8	3	2.88
65	140	48	2.1	**NJG2313-VX-H**	355	350	900	1900	--	80.71	90	116.5	3.5	3.52
70	150	51	2.1	**NJG2314-VX-H**	390	390	850	1800	--	84.22	93.5	121.6	3.5	4.33
75	160	55	2.1	**NJG231 5-VX-H**	465	480	750	1600	--	91.24	101.6	131.5	3.5	5.3
80	170	58	2.1	**NJG2316-VX-H**	544	565	700	1500	--	98.26	109.5	142.1	3.5	6.32
85	180	60	3	**NJG2317-VX-H**	573	615	670	1400	--	107	118.2	150.9	4	7.34
90	190	64	3	**NJG2318-VX-H**	620	650	670	1400	--	105.3	117.5	152.5	4	8.83
100	215	73	3	**NJG2320-VX-H**	800	850	600	1200	--	119.3	132.7	172.8	4	13
110	240	80	3	**NJG2322-VX-H**	955	980	560	1100	--	134.3	151.1	199.9	5	17
120	260	86	3	**NJG2324-VX-H**	1150	1270	530	1000	--	147.4	164.2	213.1	5	22.3
130	280	93	4	**NJG2326-VX-H**	1300	1420	500	950	--	157.9	176	227.9	5	27.95
140	300	102	4	**NJG2328-VX-H**	1450	1600	450	850	--	168.5	187.8	243.4	7	34.9
150	320	108	4	**NJG2330-VX-H**	1685	1950	430	800	--	182.5	203.3	263.5	7	42.1
160	340	114	4	**NJG2332-VX-H**	1900	2200	400	750	--	266.4	219	284.4	7	49.7
170	360	120	4	**NJG2334-VX-H**	2100	2400	450	800	--	203.55	226.6	295	7	59.2
180	380	126	4	**NJG2336-VX-H**	2200	2650	400	700	--	221.7	245	312.9	7	69.1
190	400	132	5	**NJG2338-VX-H**	2500	3000	400	700	--	224.5	250	326.8	7	80.3
200	420	138	5	**NJG2340-VX-H**	2850	3400	320	600	--	238.6	265.7	347.2	7	92.1
220	460	145	5	**NJG2344-VX-H**	3050	3500	300	570	--	266.7	297	388.3	7	111.2
240	500	155	5	**NJG2348-VX-H**	3350	3900	300	570	--	280.6	312.5	408.5	10	142.3
260	540	165	6	**NJG2352-VX-H**	4100	4850	270	550	--	315.6	351.6	459.6	10	173.2

Single Row Full Complement Cylindrical Roller Bearings

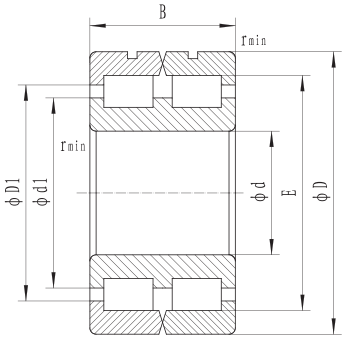


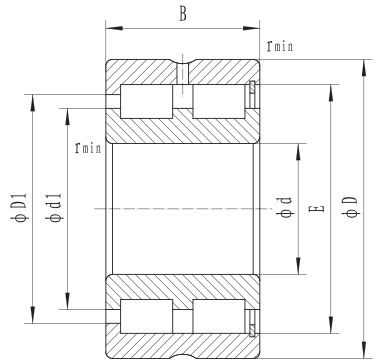
Principal Dimensions (mm)				Bearing Designations	Basic Load Ratings (N)		Limiting Speed (rpm)		Abutment and Fillet Dimensions (mm)					Weight (kg)
d	D	B	r_{min}		Dynamic Cr	Static Cor	Grease min^{-1}	Oil min^{-1}	E*	F	d_1	D_1	S**	
150	190	40	1.1	**NNC4830-VX**	233	585	720	1500	178.3	--	165.1	174.2	--	2.9
160	200	40	1.1	**NNC4832-VX**	242	620	680	1400	186.9	--	173.7	182.8	--	3.1
170	215	45	1.1	**NNC4834-VX**	264	655	640	1300	201.3	--	186.3	197	--	4.1
180	225	45	1.1	**NNC4836-VX**	270	695	610	1200	214.1	--	199.1	209.8	--	4.3
190	240	50	1.5	**NNC4838-VX**	303	750	560	1150	225	--	207.6	220.7	--	5.65
200	250	50	1.5	**NNC4840-VX**	325	800	550	1100	235.5	--	218.1	231.2	--	5.9
220	270	50	1.5	**NNC4844-VX**	340	865	500	1000	256.5	--	239.1	252.3	--	6.4
240	300	60	2	**NNC4848-VX**	510	1290	480	900	281.9	--	259.5	276.7	--	10
260	320	60	2	**NNC4852-VX**	540	1400	430	820	304.2	--	281.8	298.8	--	11
280	350	69	2	**NNC4856-VX**	700	1860	400	750	332.4	--	306.8	326.4	--	16
300	380	80	2.1	**NNC4860-VX**	825	2120	380	700	356.7	--	327.9	349.9	--	23
320	400	80	2.1	**NNC4864-VX**	855	2280	340	640	379.7	--	350.9	372.9	--	24
340	420	80	2.1	**NNC4868-VX**	870	2400	320	600	396.9	--	368.1	390.1	--	25.5
360	440	80	2.1	**NNC4872-VX**	910	2550	300	580	419.8	--	391	413.2	--	27
380	480	100	2.1	**NNC4876-VX**	1350	3650	280	530	455.8	--	419	447.2	--	45.5
400	500	100	2.1	**NNC4880-VX**	1370	3750	270	500	501.74	--	433.8	462	--	46.5
420	520	100	2.1	**NNC4884-VX**	1380	4100	250	470	无	--	458	482	--	49.5
440	540	100	2.1	**NNC4888-VX**	1500	4200	240	450	无	--	480	504	--	52
460	580	118	3	**NNC4892-VX**	1650	4600	230	420	无	--	505	531	--	76
480	600	118	3	**NNC4896-VX**	1700	4800	210	400	无	--	529	555	--	78.5
500	620	118	3	**NNC48/500-VX**	1750	5000	200	380	无	--	546	571	--	81.5
530	650	118	3	**NNC48/530-VX**	1800	5550	180	340	无	--	577	603	--	86
60	85	25	1	**NNC4912-VX**	76.5	134	1700	3400	77.51	--	70.3	73.5	--	0.49
70	100	30	1	**NNC4914-VX**	105	185	1400	3000	91.87	--	82.5	87.4	--	0.78
80	110	30	1	**NNC4916-VX**	112	216	1200	2600	100.78	--	91.4	96.2	--	0.88
90	125	35	1.1	**NNC4918-VX**	155	295	1100	2300	115.2	--	103.9	110.7	--	1.35



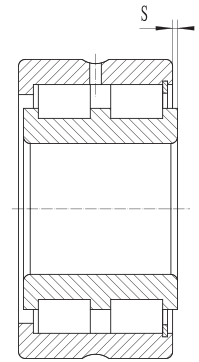


Principal Dimensions (mm)				Bearing Designations	Basic Load Ratings (N)		Limiting Speed (rpm)		Abutment and Fillet Dimensions (mm)					Weight (kg)
d	D	B	r_{min}		Dynamic Cr	Static Cor	Grease min^{-1}	Oil min^{-1}	E*	F	d_1	D_1	S**	
100	140	40	1.1	**NNC4920-VX**	195	375	950	2000	129.6	--	116.4	125	--	1.95
110	150	40	1.1	**NNC4922-VX**	197	420	900	1900	138.2	--	125	133.6	--	2.15
120	165	45	1.1	**NNC4924-VX**	225	445	800	1700	153.55	--	138.6	148 6	--	2.95
130	180	50	1.5	**NNC4926-VX**	265	515	750	1600	165.4	--	148.4	160	--	3.95
140	190	50	1.5	**NNC4928-VX**	275	560	700	1500	175.9	--	159	170.5	--	4.2
150	210	60	2	**NNC4930-VX**	410	820	680	1400	192.77	--	171.8	187.2	--	6.65
160	220	60	2	**NNC4932-VX**	430	890	650	1300	206.16	--	184.2	200.3	--	7
170	230	60	2	**NNC4934-VX**	440	935	600	1200	215.08	--	193.1	209.1	--	7.35
180	250	69	2	**NNC4936-VX**	575	1220	570	1100	230.5	--	204.9	224.1	--	10.8
190	260	69	2	**NNC4938-VX**	585	1290	550	1100	240.7	--	215	234.3	--	11.2
200	280	80	2.1	**NNC4940-VX**	685	1500	530	1000	259.34	--	230.5	252.3	--	15.8
220	300	80	2.1	**NNC4944-VX**	720	1610	500	950	276.52	--	248	268.5	--	17.2
240	320	80	2.1	**NNC4948-VX**	745	1762	450	850	299.1	--	270.6	292.3	--	18.5
260	360	100	2.1	**NNC4952-VX**	1120	2520	400	750	331.33	--	294.5	322.1	--	32
280	380	100	2.1	**NNC4956-VX**	1120	2710	380	700	353.34	--	316.5	344.6	--	34
300	420	118	3	**NNC4960-VX**	1650	3750	340	650	385.51	--	340.7	374.3	--	53
320	440	118	3	**NNC4964-VX**	1710	4100	320	600	412.27	--	367.5	401.1	--	56
340	460	118	3	**NNC4968-VX**	1800	4390	300	560	430.11	--	385.3	418.9	--	59
360	480	118	3	**NNC4972-VX**	1800	4650	300	550	448	--	404	436.8	--	62.1
380	520	140	4	**NNC4976-VX**	2300	5550	260	500	481.35	--	430.2	468.7	--	92.4
400	540	140	4	**NNC4980-VX**	2350	5800	240	480	501.74	--	450.5	489	--	96.5
420	560	140	4	**NNC4984-VX**	2430	6000	220	450	--	--	470	512	--	99.5
440	600	160	4	**NNC4988-VX**	2990	7570	200	430	--	--	503	544	--	137
460	620	160	4	**NNC4992-VX**	3020	7770	190	400	--	--	512	564	--	140
480	650	170	5	**NNC4996-VX**	3350	8420	180	360	--	--	537	592	--	165
500	670	170	5	**NNC49/500-VX**	3350	8850	170	360	--	--	568	611	--	175

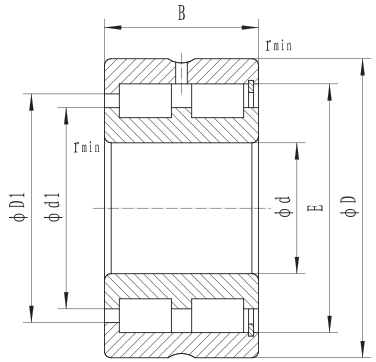


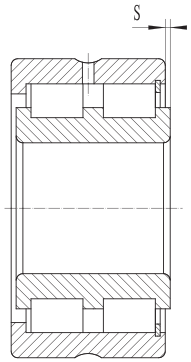


Principal Dimensions (mm)				Bearing Designations	Basic Load Ratings (N)	
d	D	B	r_{min}		Dynamic Cr	Static Cor
530	710	180	5	**NNC49/530-VX**	3950	10200
150	190	40	1.1	**NNCF4830-VX**	233	585
160	200	40	1.1	**NNCF4832-VX**	242	620
170	215	45	1.1	**NNCF4834-VX**	264	655
180	225	45	1.1	**NNCF4836-VX**	270	695
190	240	50	1.5	**NNCF4838-VX**	303	750
200	250	50	1.5	**NNCF4840-VX**	325	800
220	270	50	1.5	**NNCF4844-VX**	340	865
240	300	60	2	**NNCF4848-VX**	510	1290
260	320	60	2	**NNCF4852-VX**	540	1400
280	350	69	2	**NNCF4856-VX**	700	1860
300	380	80	2.1	**NNCF4860-VX**	825	2120
320	400	80	2.1	**NNCF4864-VX**	855	2280
340	420	80	2.1	**NNCF4868-VX**	870	2400
360	440	80	2.1	**NNCF4872-VX**	910	2550
380	480	100	2.1	**NNCF4876-VX**	1350	3650
400	500	100	2.1	**NNCF4880-VX**	1370	3750
420	520	100	2.1	**NNCF4884-VX**	1380	4100
440	540	100	2.1	**NNCF4888-VX**	1500	4200
460	580	118	3	**NNCF4892-VX**	1650	4600
480	600	118	3	**NNCF4896-VX**	1700	4800
500	620	118	3	**NNCF48/500-vX**	1750	5000
530	650	118	3	**NNCF48/530-VX**	1800	5550
60	85	25	1	**NNCF4912-VX**	76.5	134
70	100	30	1	**NNCF4914-VX**	105	185
80	110	30	1	**NNCF4916-VX**	112	216



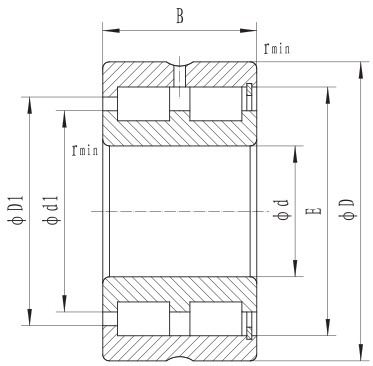
Limiting Speed (rpm)		Abutment and Fillet Dimensions (mm)					Weight (kg)
Grease min^{-1}	Oil min^{-1}	E*	F	d_1	D_1	S**	
160	340	--	--	588	648	2	200
720	1500	178.3	--	166	173	2	2.7
680	1400	186.9	--	174	182	2	2.9
640	1300	201.3	--	187	196	3	3.9
610	1200	214.1	--	200	209	3	4
560	1150	225	--	209	219	4	5.3
550	1100	235.5	--	220	230	4	5.5
500	1000	256.5	--	241	251	4	5.9
480	900	281.9	--	261	275	4	9.1
430	820	304.2	--	283	297	4	9.7
400	750	332.4	--	309	326	4	15.3
380	700	356.7	--	329	349	6	21.8
340	640	379.7	--	352	372	6	22.7
320	600	396.9	--	369	389	6	25.5
300	560	419.8	--	392	412	6	27
280	530	455.8	--	421	446	6	45.5
270	500	470.59	--	435	461	6	46.5
250	470	--	--	458	482	6	49.5
240	450	--	--	480	504	6	52
230	420	--	--	505	531	7	76
210	400	--	--	529	555	7	78.5
200	380	--	--	546	571	7	81.5
180	340	--	--	577	603	7	85
1700	3400	77.51	--	70.5	73.5	1	0.49
1400	3000	91.87	--	83	87	1	0.78
1200	2600	97.78	--	91.4	96	1	0.88



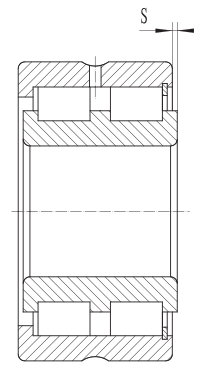


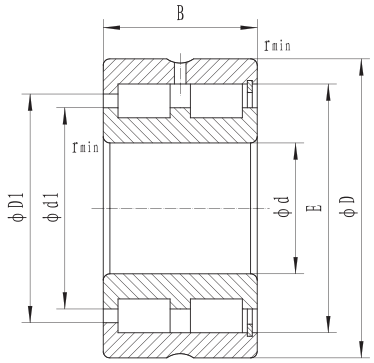
Principal Dimensions (mm)				Bearing Designations	Basic Load Ratings (N)		Limiting Speed (rpm)		Abutment and Fillet Dimensions (mm)					Weight (kg)
d	D	B	r_{min}		Dynamic Cr	Static Cor	Grease min^{-1}	Oil min^{-1}	E	F	d_1	D_1	S	
90	125	35	1.1	**NNCF4918-VX**	155	295	1100	2300	113.2	--	103	111	1.5	1.35
100	140	40	1.1	**NNCF4920-VX**	195	375	950	2000	129.6	--	116	125	2	2
110	150	40	1.1	**NNCF4922-VX**	197	420	900	1900	138.2	--	124	134	2	2.15
120	165	45	1.1	**NNCF4924-VX**	225	445	800	1700	153.55	--	138	149	3	2.95
130	180	50	1.5	**NNCF4926-VX**	265	515	750	1600	165.4	--	148	160	4	3.95
140	190	50	1.5	**NNCF4928-VX**	275	560	700	1500	175.9	--	159	171	4	4.2
150	210	60	2	**NNCF4930-VX**	410	820	680	1400	192.77	--	170	187	4	6.65
160	220	60	2	**NNCF4932-VX**	430	890	650	1300	206.16	--	184	200	4	7
170	230	60	2	**NNCF4934-VX**	440	935	600	1200	215.08	--	193	209	4	7.35
180	250	69	2	**NNCF4936-VX**	575	1220	570	1100	230.5	--	205	224	4	10.8
190	260	69	2	**NNCF4938-VX**	585	1290	550	1100	240.7	--	215	234	4	11.2
200	280	80	2.1	**NNCF4940-VX**	685	1500	530	1000	259.3	--	230	252	5	15.8
220	300	80	2.1	**NNCF4944-VX**	720	1610	500	950	276.52	--	247	269	5	17.2
240	320	80	2.1	**NNCF4948-VX**	745	1762	450	850	299.46	--	270	292	5	18.5
260	360	100	2.1	**NNCF4952-VX**	1120	2520	400	750	331.33	--	294	322	6	32
280	380	100	2.1	**NNCF4956-VX**	1120	2710	380	700	353.34	--	316	344	6	34
300	420	118	3	**NNCF4960-VX**	1650	3750	340	650	385.51	--	340	374	6	53
320	440	118	3	**NNCF4964-VX**	1710	4100	320	600	412.27	--	368	400	6	56
340	460	118	3	**NNCF4968-VX**	1800	4390	300	560	430.11	--	386	418	6	59
360	480	118	3	**NNCF4972-VX**	1800	4650	300	550	448	--	404	436	6	62.1
380	520	140	4	**NNCF4976-VX**	2300	5550	260	500	481.35	--	431	468	7	92.4
400	540	140	4	**NNCF4980-VX**	2350	5800	240	480	501.74	--	451	488	7	96.5
420	560	140	4	**NNCF4984-VX**	2430	6000	220	450	--	--	470	512	7	99.5
440	600	160	4	**NNCF4988-VX**	2990	7570	200	430	--	--	503	544	7	137
460	620	160	4	**NNCF4992-VX**	3020	7770	190	400	--	--	512	564	7	140
480	650	170	5	**NNCF4996-VX**	3350	8420	180	360	--	--	537	592	8	165

Double Row Full Complement Cylindrical Roller Bearings

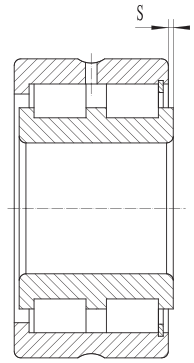


Principal Dimensions (mm)				Bearing Designations	Basic Load Ratings (N)		Limiting Speed (rpm)		Abutment and Fillet Dimensions (mm)					Weight (kg)
d	D	B	r_{min}		Dynamic Cr	Static Cor	Grease min^{-1}	Oil min^{-1}	E	F	d_1	D_1	S	
500	670	170	5	**NNCF49/500-VX**	3350	8850	170	360	--	--	568	611	8	175
530	710	180	5	**NNCF49/530-VX**	3950	10200	160	340	--	--	588	648	8	200
25	47	30	0.6	**NNCF5005-VX**	59.5	64	3800	7000	42.51	--	34.5	39	1	0.23
30	55	34	1	**NNCF5006-VX**	77.8	83.5	3200	6000	45.3	--	40	45.3	1.5	0.35
35	62	36	1	**NNCF5007-VX**	95	107	2800	5300	51.3	--	44.9	51.2	1.5	0.46
40	68	38	1	**NNCF5008-VX**	112	134	2400	4800	57.2	--	50.5	57.2	1.5	0.56
45	75	40	1	**NNCF5009-VX**	121	149	2000	4300	62.5	--	55.3	62.6	1.5	0.71
50	80	40	1	**NNCF5010-VX**	150	189	1900	4000	67.6	--	59.1	67.6	1.5	0.76
55	90	46	1.1	**NNCF5011-VX**	207	275	1600	3400	78.7	--	68.5	78.7	1.5	1.16
60	95	46	1.1	**NNCF5012-VX**	211	285	1600	3400	86.74	--	717	81.9	1.5	1.24
65	100	46	1.1	**NNCF5013-VX**	220	316	1400	3000	93.09	--	78.1	88.3	1.5	1.32
70	110	54	1.1	**NNCFS014-VX**	266	350	1300	2800	100.28	--	81.5	95.7	3	1.85
75	115	54	1.1	**NNCF5015-VX**	274	386	1200	2600	107.9	--	89	102.9	3	1.93
80	125	60	1.1	**NNCF5016-VX**	290	440	1100	2400	116.99	--	95	111.7	3.5	2.59
85	130	60	1.1	**NNCF5017-VX**	310	470	1100	2400	121.44	--	99	116.1	3 5	2.72
90	140	67	1.5	**NNCF5018-VX**	355	550	1000	2200	130.11	--	106.1	124.5	4	3.62
100	150	67	1.5	**NNCF5020-VX**	375	600	950	2000	139.65	--	115.7	134	4	3.94
110	170	80	2	**NNCF5022-VX**	484	775	850	1800	156.13	--	127.3	149.3	5	6.32
120	180	80	2	**NNCF5024-VX**	515	850	800	1700	167.58	--	138.8	160.7	5	6.77
130	200	95	2	**NNCF5026-VX**	730	1200	700	1500	183.81	--	148.6	175.5	5	10.2
140	210	95	2	**NNCF5028-VX**	765	1330	670	1400	197.82	--	162.6	189.5	5	11.1
150	225	100	2	**NNCF5030-VX**	815	1400	630	1300	206.8	--	170	198	6	13.3
160	240	109	2.1	**NNCF5032-VX**	925	1600	600	1200	224.8	--	184.8	215.8	6	16.2
170	260	122	2.1	**NNCF5034-VX**	1200	2100	560	1100	243	--	198	232	6	22.5
180	280	136	2.1	**NNCF5036-VX**	1400	2500	560	1100	260.5	--	212.2	249.4	8	29.9
190	290	136	2.1	**NNCF5038-VX**	1420	2600	530	1000	270	--	221.8	259	8.2	31.3

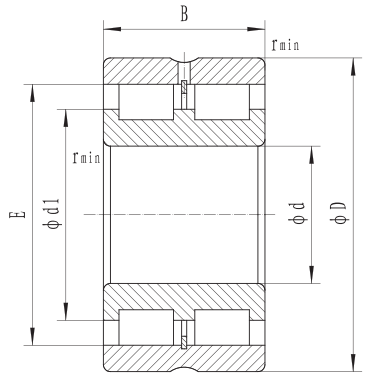


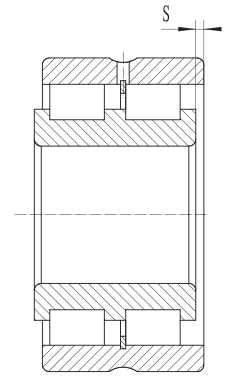


Principal Dimensions (mm)				Bearing Designations	Basic Load Ratings (N)	
d	D	B	r_{min}		Dynamic Cr	Static Cor
200	310	150	2.1	**NNCF5040-VX**	1650	3000
220	340	160	3	**NNCF5044-VX**	1950	3600
240	360	160	3	**NNCF5048-VX**	2000	4000
260	400	190	4	**NNCF5052-VX**	2750	5000
280	420	190	4	**NNCF5056-VX**	2800	5250
300	460	218	4	**NNCF5060-VX**	3400	6550
320	480	218	4	**NNCF5064-VX**	3500	6850
340	520	243	5	**NNCF5068-VX**	4200	8200
360	540	243	5	**NNCF5072-VX**	4350	8700
380	560	243	5	**NNCF5076-VX**	4400	8900
400	600	272	5	**NNCF5080-VX**	5400	10500
150	190	40	1.1	**NNCL4830-VX**	233	585
160	200	40	1.1	**NNCL4832-VX**	242	620
170	215	45	1.1	**NNCL4834-VX**	264	655
180	225	45	1.1	**NNCL4836-VX**	270	695
190	240	50	1.5	**NNCL4838-VX**	303	750
200	250	50	1.5	**NNCL4840-VX**	325	800
220	270	50	1.5	**NNCL4844-VX**	340	865
240	300	60	2	**NNCL4848-VX**	510	1290
260	320	60	2	**NNCL4852-VX**	540	1400
280	350	69	2	**NNCL4856-VX**	700	1860
300	380	80	2.1	**NNCL4860-VX**	825	2120
60	85	25	1	**NNCL4912-VX**	76.5	134
70	100	30	1	**NNCL4914-VX**	105	185
80	110	30	1	**NNCL4916-VX**	112	216
90	125	35	1.1	**NNCL4918-VX**	155	295



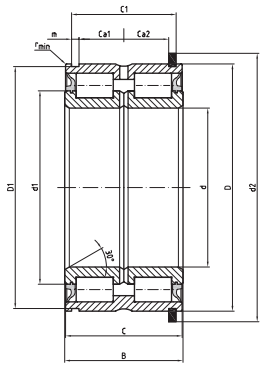
Limiting Speed (rpm)		Abutment and Fillet Dimensions (mm)					Weight (kg)
Grease min^{-1}	Oil min^{-1}	E	F	d_1	D_1	S	
500	950	288	--	236.6	276.2	8.9	40.4
450	850	312.2	--	254.6	297.8	9	51.6
430	800	335.6	--	277.5	322.1	9	55.2
380	700	373.5	--	304	359.7	11.3	82.6
360	670	389	--	318.3	374.1	11.3	88
320	600	433	--	353.6	413.6	12.5	124
300	560	449	--	369.5	431.5	12.5	128.4
280	530	485	--	396	465.5	14.3	178
260	500	503	--	413 8	481	14	193
240	480	521	--	432	499	14.1	196.5
220	450	558	--	464	536	11	270
720	1500	178.3	--	165.1	--	2	2.8
680	1400	186.9	--	173.7	--	2	3
640	1300	201.3	--	186.3	--	3	3.95
610	1200	214.1	--	199.1	--	3	4.15
560	1150	225	--	207.6	--	4	5.45
550	1100	235.5	--	218.1	--	4	5.7
500	1000	256.5	--	239.1	--	4	6.2
480	900	281.9	--	259.5	--	4	9.9
430	820	304.2	--	281.8	--	4	10.6
400	750	332.4	--	306.8	--	4	15.6
380	700	356.7	--	327.9	--	6	22
1700	3400	77.51	--	70.3	--	1	0.47
1400	3000	91.87	--	82.5	--	1	0.75
1200	2600	100.78	--	91.4	--	1	0.85
1100	2300	115.2	--	103	--	1.5	1.3



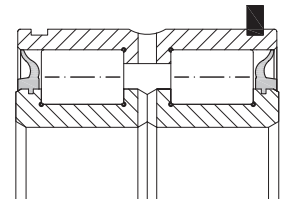


Principal Dimensions (mm)				Bearing Designations	Basic Load Ratings (N)		Limiting Speed (rpm)		Abutment and Fillet Dimensions (mm)					Weight (kg)
d	D	B	r_{min}		Dynamic Cr	Static Cor	Grease min^{-1}	Oil min^{-1}	E	F	d_1	D_1	S	
100	140	40	1.1	**NNCL4920-VX**	195	375	950	2000	129.6	--	116.4	--	2	1.9
110	150	40	1.1	**NNCL4922-VX**	197	420	900	1900	138.2	--	125	--	2	2.1
120	165	45	1.1	**NNCL4924-VX**	225	445	800	1700	153.55	--	138.6	--	3	2.85
130	180	50	1.5	**NNCL4926-VX**	265	515	750	1600	165.4	--	149.5	--	4	3.8
140	190	50	1.5	**NNCL4928-VX**	275	560	700	1500	175.9	--	160	--	4	4.1
150	210	60	2	**NNCL4930-VX**	410	820	680	1400	192.77	--	171.8	--	4	6.45
160	220	60	2	**NNCL4932-VX**	430	890	650	1300	206.16	--	184.2	--	4	6.8
170	230	60	2	**NNCL4934-VX**	440	935	600	1200	215.08	--	193.1	--	4	7.1
180	250	69	2	**NNCL4936-VX**	575	1220	570	1100	230.5	--	204.9	--	4	10.5
190	260	69	2	**NNCL4938-VX**	585	1290	550	1100	240.7	--	215	--	4	10.9
200	280	80	2.1	**NNCL4940-VX**	685	1500	530	1000	259.34	--	230.5	--	5	15.3
220	300	80	2.1	**NNCL4944-VX**	720	1610	500	950	276.52	--	248	--	5	16.7
240	320	80	2.1	**NNCL4948-VX**	745	1762	450	850	299.46	--	270.6	--	5	17.9
260	360	100	2.1	**NNCL4952-VX**	1120	2520	400	750	331.33	--	294.5	--	6	31.2
280	380	100	2.1	**NNCL4956-VX**	1120	2710	380	700	353.34	--	316.5	--	6	33.1
300	420	118	3	**NNCL4960-VX**	1650	3750	340	650	385.51	--	340.7	--	6	51.9
320	440	118	3	**NNCL4964-VX**	1710	4100	320	600	412.27	--	367.5	--	6	54.9
340	460	118	3	**NNCL4968-VX**	1800	4390	300	560	430.11	--	385.3	--	6	57.8
360	480	118	3	**NNCL4972-VX**	1800	4650	300	550	448	--	404	--	6	60.8
380	520	140	4	**NNCL4976-VX**	2300	5550	260	500	481.4	--	430.2	--	7	90.5
400	540	140	4	**NNCL4980-VX**	2350	5800	240	480	501.74	--	450.5	--	7	94.6
420	560	140	4	**NNCL4984-VX**	2430	6000	220	450	--	--	470	--	7	99.5
440	600	160	4	**NNCL4988-VX**	2990	7570	200	430	--	--	503	--	7	137
460	620	160	4	**NNCL4992-VX**	3020	7770	190	400	--	--	512	--	7	140
480	650	170	5	**NNCL4996-VX**	3350	8420	180	360	--	--	537	--	8	165
500	670	170	5	**NNCL49/500-VX**	3350	8850	170	360	--	--	568	--	8	175
530	710	180	5	**NNCL49/530-VX**	3950	10200	160	340	--	--	588	--	8	200

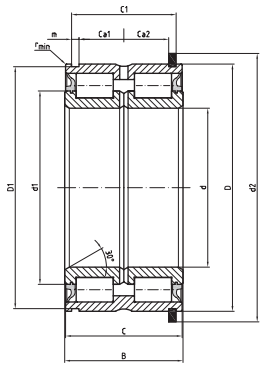
Double Row Full Complement Cylindrical Roller Bearings



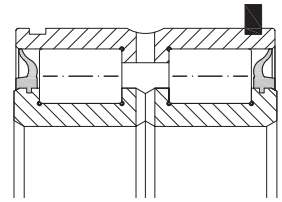
Principal Dimensions (mm)								Bearing Designations
d	D	B	C	C_1	Ca_1	Ca_2	D_1~	
20	42	30	29	24.7	21.5	21	40.2	**NNF 5004.A.2LS.V**
25	47	30	29	24.7	21.5	21	45.2	**NNF 5005.A.2LS.V**
30	55	34	33	28.2	25	24	53	**NNF 5006.A.2LS.V**
35	62	36	35	30.2	27	26	60	**NNF 5007.A.2LS.V**
40	68	38	37	32.2	28	27	65.8	**NNF 5008.A.2LS.V**
45	75	40	39	34.2	30	29	72.8	**NNF 5009.A.2LS.V**
50	80	40	39	34.2	30	29	77.8	**NNF 5010.A.2LS.V**
55	90	46	45	40.2	35	34	87.4	**NNF 5011.A.2LS.V**
60	95	46	45	40.2	35	34	92.4	**NNF 5012.A.2LS.V**
65	100	46	45	40.2	35	34	97.4	**NNF 5013.A.2LS.V**
70	110	54	53	48.2	43	40	107.1	**NNF 5014.A.2LS.V**
75	115	54	53	48.2	43	40	112.1	**NNF 5015.A.2LS.V**
80	125	60	59	54.2	49	46	122.1	**NNF 5016.A.2LS.V**
85	130	60	59	54.2	49	46	127.1	**NNF 5017.A.2LS.V**
90	140	67	66	59.2	54	51	137	**NNF 5018.A.2LS.V**
95	145	67	66	59.2	54	51	142	**NNF 5019.A.2LS.V**
100	150	67	66	59.2	54	51	147	**NNF 5020.A.2LS.V**
110	170	80	79	70.2	65	62	167	**NNF 5022.A.2LS.V**
120	180	80	79	71.2	65	63	176	**NNF 5024.A.2LS.V**
130	200	95	94	83.2	77	75	196	**NNF 5026.A.2LS.V**
140	210	95	94	83.2	77	73	206	**NNF 5028.A.2LS.V**
150	225	100	99	87.2	81	77	221	**NNF 5030.A.2LS.V**
160	240	109	108	95.2	89	85	236	**NNF 5032.A.2LS.V**
170	260	122	121	107.2	99	97	254	**NNF 5034.A.2LS.V**
180	280	136	135	118.2	110	108	274	**NNF 5036.A.2LS.V**
190	290	136	135	118.2	110	108	284	**NNF 5038.A.2LS.V**
200	310	150	149	128.2	120	116	304	**NNF 5040.A.2LS.V**
220	340	160	159	138.2	130	126	334	**NNF 5044.A.2LS.V**
240	360	160	159	138.2	130	126	354	**NNF 5048.A.2LS.V**
260	400	190	189	162.2	154	150	394	**NNF 5052.A.2LS.V**
280	420	190	189	163.2	154	149	413	**NNF 5056 A-2LS.V**
300	460	218	216	185.2	176	171	453	**NNF 5060 A-2LS.V**



Abutment And Fillet Dimensions (mm)				Basic Load Rating		Limiting Speed	Snap Ring	Retaining Ring To	Weight
d_1~	d_2*	m	r (min)	dyn.C_r (kN)	stat.C_{or} (kN)	n_G (min-1)	wre	DIN 471	(kg)
31	47	1.8	0.3	40	49	4000	wre 42	42 × 1.75	0.20
35.5	52	1.8	0.3	44	58	3600	wre 47	47 × 1.75	0.24
41	60	2.1	0.3	50	67	3000	wre 55	55 × 2	0.37
46.5	67	2.1	0.3	63	88	2600	wre 62	62 × 2	0.48
51.5	75	2.7	0.6	76	103	2400	wre 68	68 × 2.5	0.56
57.5	82	2.7	0.6	92	130	2200	wre 75	75 × 2.5	0.70
62	87	2.7	0.6	97	142	2000	wre 80	80 × 2.5	0.76
69	99	3.2	0.6	115	175.5	1800	wre 90	90 × 3	1.18
74	104	3.2	0.6	120	189	1700	wre 95	95 × 3	1.26
79	109	3.2	0.6	125	203	1600	wre 100	100 × 3	1.33
85	119	4.2	0.6	168	265	1400	wre 110	110 × 4	1.87
90	124	4.2	0.6	194	300	1400	wre 115	115 × 4	1.96
97.5	137	4.2	0.6	203	325	1300	wre 125	125 × 4	2.71
104.5	142	4.2	0.6	211	350	1200	wre 130	130 × 4	2.83
109.5	152	4.2	0.6	305	510	1100	wre 140	140 × 4	3.71
114	157	4.2	0.6	315	530	1100	wre 145	145 × 4	3.88
118	162	4.2	0.6	330	550	1000	wre 150	150 × 4	3.95
132	182	4.2	0.6	395	680	900	wre 170	170 × 4	6.57
141.5	196	4.2	0.6	410	740	900	wre 180	180 × 4	7.04
157	216	4.2	0.6	540	960	800	wre 200	200 × 4	10.50
166	226	5.2	0.6	610	1100	750	wre 210	210 × 5	11.10
176	245	5.2	0.6	710	1260	700	wre 225	225 × 5	13.30
189.5	260	5.2	0.6	740	1360	650	wre 240	240 × 5	16.60
201	282	5.2	0.6	960	1750	600	wre 260	260 × 5	22.60
218.5	302	5.2	0.6	1140	2130	550	wre 280	280 × 5	30.10
226	312	5.2	0.6	1160	2210	550	wre 290	290 × 5	31.50
241.5	336	6.3	0.6	1350	2600	550	wre 310	310 × 6	40.80
260.5	366	6.3	1	1570	3050	480	wre 340	340 × 6	52.50
279.5	386	6.3	1	1630	3300	440	wre 360	360 × 6	56.00
305.5	426	6.3	1.1	2380	4700	400	wre 400	400 × 6	84.50
321.5	453	7.3	1.1	2600	5200	380	wre 420	420 × 7	90.00
347.5	493	7.3	1.1	3000	5800	340	wre 460	460 × 7	126.00



Principal Dimensions (mm)								Bearing Designations
d	D	B	C	C_1	Ca_1	Ca_2	D1~	
130	190	80	79	71.2	65	63	186	**NNF 130.A.2LS.V**
140	200	80	79	71.2	65	63	196	**NNF 140.A.2LS.V**
150	210	80	79	71.2	65	61	206	**NNF 150.A.2LS.V**
160	220	80	79	71.2	65	61	216	**NNF 160.A.2LS.V**
170	230	80	79	71.2	65	61	226	**NNF 170.A.2LS.V**
180	240	80	79	71.2	65	61	236	**NNF 180.A.2LS.V**
190	260	80	79	73.2	65	63	254	**NNF 190.A.2LS.V**
200	270	80	79	73.2	65	63	264	**NNF 200.A.2LS.V**
220	300	95	94	83.2	75	71	294	**NNF 220.A.2LS.V**
240	320	95	94	83.2	75	71	314	**NNF 240.A.2LS.V**
260	340	95	94	83.2	75	71	334	**NNF 260.A.2LS.V**



Abutment And Fillet Dimensions (mm)				Basic Load Rating		Limiting Speed	Snap Ring	Retaining Ring to	Weight
$d_{1\sim}$	d_{2*}	m	r (min)	dyn.C_r (kN)	stat.C_{0r} (kN)	n_G (min-1)	wre	DIN 471	(kg)
150.55	160	4.2	0.6	432	795	810	wre 190	190 × 4	7.50
159.95	170	4.2	0.6	445	842	755	wre 200	200 × 4	8.00
174.4	185	5.2	0.6	464	918	710	wre 210	210 × 5	8.40
184.05	196	5.2	0.6	485	973	702	wre 230	230 × 5	8.80
193.9	206	5.2	0.6	492	1034	660	wre 230	230 × 5	9.30
203.1	216	5.2	0.6	501	1082	610	wre 240	240 × 5	9.80
217.55	231	5.2	0.6	523	1135	560	wre 260	260 × 5	12.70
227.15	241	5.2	0.6	545	1215	550	wre 270	270 × 5	13.20
248.7	264	5.2	1	708	1555	485	wre 300	300 × 5	19.50
271.7	287	6.3	1	745	1710	480	wre 320	320 × 6	21.00
292.7	310	6.3	1	842	1995	445	wre 340	340 × 6	22.50

Typical designs of Four-Row Cylindrical Roller Bearings

Cylindrical Bores

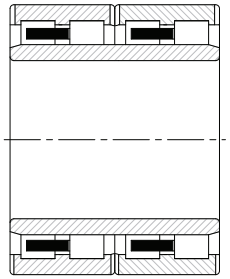


Figure 1

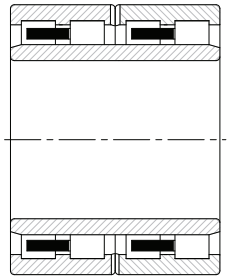


Figure 2

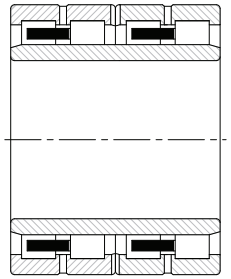


Figure 3

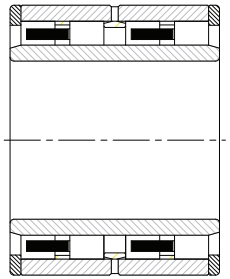


Figure 4

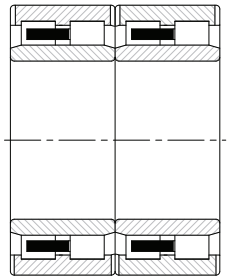


Figure 5

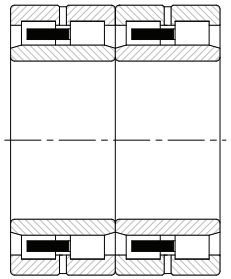


Figure 6

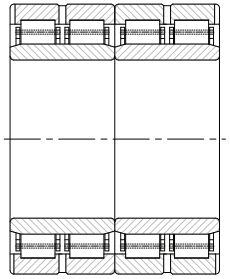


Figure 7

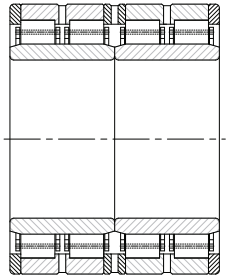


Figure 8

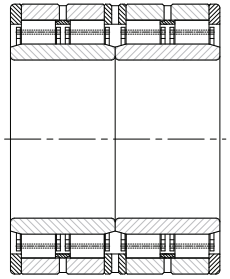


Figure 9

Tapered Bores

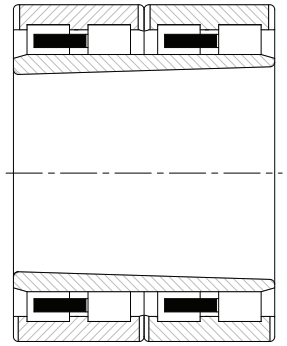


Figure 10

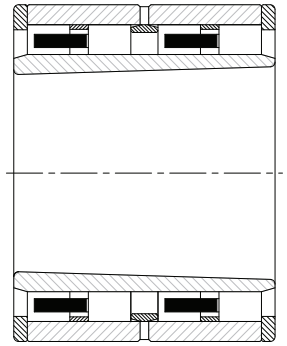


Figure 11

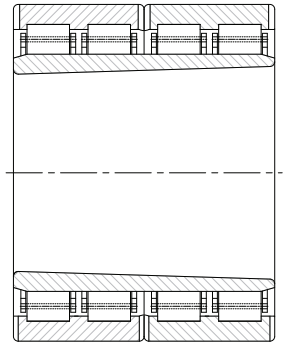


Figure 12

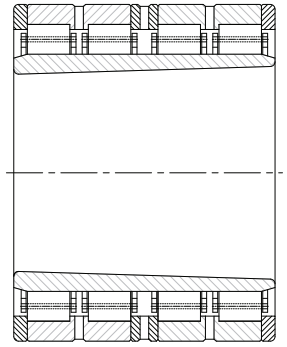
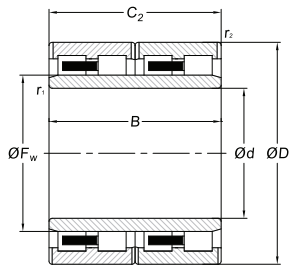


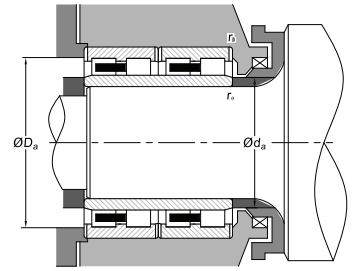
Figure 13

Four Row Cylindrical Roller Bearings UBC

Cylindrical Bore

d: 100.000~180.000mm





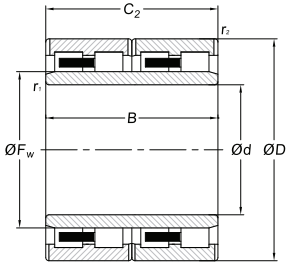
Principal Dimensions (mm)							Bearing Designations		Design①	Basic Load Ratings (kN)		Abutment and Fillet Dimensions (mm)				Weight (kg)
d	D	B	C_2	F_w	r_1 (min)	r_2 (min)				Dynamic Cr	Static Cor	d_a (min)	D_a (max)	r_a (max)	r_b (max)	
100	140	104	104	111	1.5	1.1	**100RV1401**		3	400	820	110	130	1.5	1.0	4.8
110	170	120	120	127	2.0	2.0	**110RV1701**		1	615	1100	122	157	2.0	2.0	9.9
120	165	87	87	134.5	1.1	1.1	**120RV1601**		1	365	725	130	155	1.0	1.0	5.4
	180	105	105	136	2.0	2.0	**120RV1801**		1	530	880	132	167	2.0	2.0	8.9
	215	174	174	147	2.1	2,1	**120RV2101**		1	1060	1600	134	199	2.0	2.0	26.6
127	174.625	150.812	150.812	139.5	1.5	1,5	**127RV1722**		1	735	1580	138	163	1.5	1.5	10.5
	203.2	127	127	147.5	2.0	2.0	**127RV2001**		1	705	1110	139	190	2.0	2.0	15.4
130	200	125	125	149	2.0	2.0	**130RV2001**		1	700	1190	142	187	2.0	2.0	14.0
	200	104	104	149	2.0	2.0	**130RV2003**		1	570	950	142	187	2.0	2.0	11.7
140	210	116	116	160	2.0	2.0	**140RV2101**		1	640	1130	152	196	2.0	2.0	13.9
145	210	155	155	166	1.5	1,5	**145RV2101**		1	925	1920	157	197	1.5	1.5	17.8
	225	156	156	169	2.0	2.0	**145RV2201**		1	975	1820	158	211	2.0	2.0	23.0
150	220	150	150	168	2.0	2.0	**150RV2201**		1	900	1700	163	206	2.0	2.0	20.0
	225	150	150	168.5	1.5	2.1	**150RV2203**		1	970	1810	162	209	1.5	2.0	20.8
	225	136	136	168.776	2.1	2.1	**150RV2204**		1	820	1460	165	209	2.0	2.0	18.6
	230	130	130	174	2.1	2.1	**150RV2301**		1	845	1520	165	214	2.0	2.0	19.6
	230	156	156	174	2.0	2.0	**150RV2302**		1	965	1810	163	216	2.0	2.0	23.6
159.990	220	180	180	176	2.0	2.0	**159RV2201**		2	1050	2410	173	206	2.0	2.0	20.6
160	230	130	130	178	2.0	2.0	**160RV2301**		1	780	1340	173	216	2.0	2.0	16.4
	230	168	168	180	2.0	2.0	**160RV2302**		1	1040	2200	173	216	2.0	2.0	22.7
	230	180	180	178	2.0	2.0	**160RV2303**		2	1080	2280	173	216	2.0	2.0	24.2
	240	120	120	183	2.1	2.1	**160RV2401**		1	745	1320	175	224	2.0	2.0	18.8
	240	170	170	183	2.0	2.0	**160RV2402**		1	1080	2050	173	226	2.0	2.0	26.6
	240	145	145	180.016	2.1	2.1	**160RV2403**		1	920	1600	175	224	2.0	2.0	22.3
170	230	120	120	187	2.0	2.0	**170RV2301**		1	755	1610	183	216	2.0	2.0	14.0
	240	160	160	190	2.0	2.0	**170RV2402**		1	1000	2130	183	226	2.0	2.0	22.8
	250	168	168	192	2.1	2.1	**170RV2501**		1	1210	2320	185	234	2.0	2.0	27.4
	250	170	170	192	2.1	2.1	**170RV2502**		1	1210	2320	185	234	2.0	2.0	27.7
	255	180	180	193	2.1	2.1	**170RV2503**		1	1310	2500	185	239	2.0	2.0	31.5
	260	150	150	195	2.1	2.1	**170RV2602**		1	1030	1840	185	244	2.0	2.0	28.2
180	250	156	156	200	2.0	2.0	**180RV2501**		1	1020	2230	193	236	2.0	2.0	23.4
	260	168	168	202	2,1	2.1	**180RV2601**		1	1150	2300	195	244	2.0	2.0	29.2
	265	180	180	203	2,1	2.1	**180RV2603**		1	1230	2420	195	248	2.0	2.0	33.4

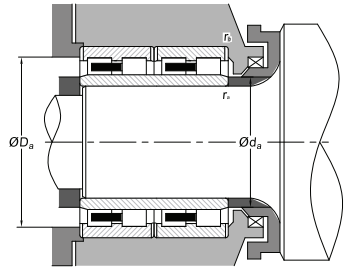
Note: ① Designs refer to pages E54 and E55.

Four Row Cylindrical Roller Bearings UBC

Cylindrical Bore

d: 180.000~270.000mm





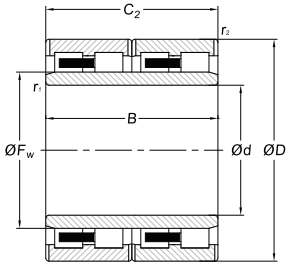
Principal Dimensions (mm)							Bearing Designations		Design①	Basic Load Ratings (kN)		Abutment and Fillet Dimensions (mm)				Weight (kg)
d	D	B	C_2	F_w	r_1 (min)	r_2 (min)				Dynamic C_r	Static C_{or}	d_a (min)	D_a (max)	r_a (max)	r_b (max)	
180	280	180	180	205.085	2,1	2.1	**180RV2802**		3	1410	2490	195	263	2.0	2.0	40.9
190	260	168	168	212	2.0	2.0	**190RV2601**		1	1140	2600	203	245	2.0	2.0	26.6
	270	200	200	212	2.1	2.1	**190RV2701**		1	1470	3100	206	253	2.0	2.0	36.0
	270	170	170	213	2.1	2.1	**190RV2702**		1	1290	2610	206	253	2.0	2.0	30.4
	270	170	170	212	2.0	2.0	**190RV2703**		1	1290	2610	203	255	2.0	2.0	30.6
	280	200	200	214	2.1	2.1	**190RV2801**		1	1480	2920	206	263	2.0	2.0	41.3
200	250	200	200	215	1.0	1.0	**200RV2521**		1	900	2500	210	240	1.0	1.0	22.3
	280	200	200	224	2.1	2.1	**200RV2801**		1	1410	3200	216	263	2.0	2.0	38.3
	280	200	200	222	2.1	2.1	**200RV2802**		1	1410	3200	216	263	2.0	2.0	38.6
	280	190	190	223	2.1	2.1	**200RV2803**		1	1350	3050	216	263	2.0	2.0	36.4
	280	170	170	223	2.1	2.1	**200RV2804**		1	1150	2460	216	263	2.0	2.0	32.3
	290	192	192	226	2.1	2.1	**200RV2901**		1	1420	3000	216	273	2.0	2.0	42.3
	310	230	230	229	2.1	2.1	**200RV3102**		1	1840	3500	216	293	2.0	2.0	63.7
	320	216	216	231	3.0	3.0	**200RV3231**		4	2120	3900	218	300	2.5	2.5	69.9
210	290	192	192	236	2.1	2.1	**210RV2901**		1	1400	3350	226	273	2.0	2.0	39.0
219.954	310	183	183	244.5	1.5	1.0	**219RV3131**		4	1480	3150	233	298	1.5	1.0	45.3
220	310	192	192	247	2.1	2.1	**220RV3101**		1	1540	3450	236	293	2.0	2.0	46.1
	310	225	225	245	2.1	2.1	**220RV3102**		1	1740	3900	236	293	2.0	2.0	52.9
	320	210	210	248	2.1	2.1	**220RV3201**		1	1790	3650	236	302	2.0	2.0	56.0
	320	210	210	246	2.1	2.1	**220RV3203**		1	1900	3750	236	302	2.0	2.0	57.0
222.250	320.675	241.3	241.3	251	2.1	2.1	**222RV3201**		2	1990	4350	238	303	2.0	2.0	65.0
230	330	206	206	260	2.1	2.1	**230RV3301**		1	1760	3900	246	312	2.0	2.0	58.2
	340	260	260	261	3.0	3.0	**230RV3401**		1	2390	5100	248	320	2.5	2.5	81.0
	365	250	250	266	3.0	3.0	**230RV3601**		5	2310	4300	248	344	2.5	2.5	98.3
240	330	220	220	270	3.0	3.0	**240RV3301**		1	1770	4400	259	310	2.5	2.5	57.7
	340	220	220	268	3.0	3.0	**240RV3403**		1	1890	3900	259	320	2.5	2.5	61.7
	360	220	220	272	3.0	3.0	**240RV3601**		2	2250	4350	259	340	2.5	2.5	77.8
250	350	220	220	278	3.0	3.0	**250RV3501**		1	1930	4200	269	330	2.5	2.5	64.8
259.948	368	218	218	290	2.1	1.1	**259RV3631**		4	2010	4350	277	354	2.0	1.0	76.7
260	355	260	260	286	2.1	2.1	**260RV3521**		5	2090	5000	277	337	2.0	2.0	74.5
	370	220	220	292	3.0	3.0	**260RV3701**		1	2050	4450	279	349	2.5	2.5	76.0
	380	280	280	294	3.0	3.0	**260RV3801**		1	2820	6250	279	359	2.5	2.5	107.0
	400	290	290	296	4.0	4.0	**260RV4001**		1	3250	6350	282	376	3.0	3.0	133.0
270	380	230	230	298	2.1	2.1	**270RV3801**		1	2330	5050	287	361	2.0	2.0	83.0

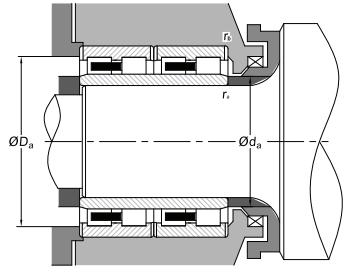
Note: ① Designs refer to pages E54 and E55.

Four Row Cylindrical Roller Bearings

Cylindrical Bore

d: 280.000~380.000mm





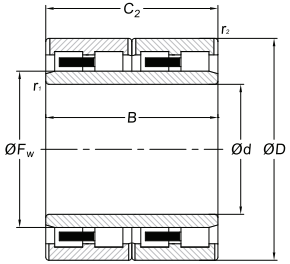
Principal Dimensions (mm)							Bearing Designations		Design①	Basic Load Ratings (kN)		Abutment and Fillet Dimensions (mm)				Weight (kg)
d	D	B	C_2	F_w	r_1 (min)	r_2 (min)				Dynamic C_r	Static C_{or}	d_a (min)	D_a (max)	r_a (max)	r_b (max)	
280	390	220	220	312	3.0	3.0	**280RV3901**		1	2120	4800	299	369	2.5	2.5	80.9
	390	240	240	312	3.0	3.0	**280RV3902**		1	2360	5500	299	369	2.5	2.5	88.5
	390	275	275	308	3.0	1.1	**280RV3903**		1	2860	6450	299	375	2.5	1.0	100.0
	400	285	285	316	3.0	3.0	**280RV4021**		5	3000	6950	299	379	2.5	2.5	117.0
290	390	234	234	320	3.0	3.0	**290RV3901**		1	2270	5600	310	369	2.5	2.5	79.7
	410	240	240	320	3.0	3.0	**290RV4101**		1	2570	5450	310	389	2.5	2.5	99.0
	420	300	300	327	3.0	3.0	**290RV4201**		1	3300	7500	310	398	2.5	2.5	138.0
300	400	300	300	328	2.0	2.0	**300RV4021**		5	2720	6900	316	383	2.0	2.0	103.0
	420	240	240	332	3.0	3.0	**300RV4201**		1	2670	5750	320	398	2.5	2.5	101.0
	420	300	300	332	2.0	2.0	**300RV4221**		5	3200	7200	316	402	2.0	2.0	128.0
310	420	300	300	338	3.0	3.0	**310RV4201**		1	3300	8050	330	398	2.5	2.5	119.0
	430	240	240	344.5	3.0	3.0	**310RV4301**		1	2610	5950	330	408	2.5	2.5	107.0
320	450	240	240	358	3.0	3.0	**320RV4501**		1	2760	6150	340	428	2.5	2.5	120.0
	480	350	350	364	4.0	1.5	**320RV4811**		8	4850	10500	343	462	3.0	1.5	232.0
330	430	230	230	358	3.0	3.0	**330RV4301**		1	2340	5850	350	408	2.5	2.5	86.3
	440	200	200	360	3.0	3.0	**330RV4401**		3	2160	4750	350	418	2.5	2.5	83.8
	460	340	340	365	4.0	4.0	**330RV4601**		1	3550	8650	353	435	3.0	3.0	174.0
340	450	250	250	371	3.0	3.0	**340RV4501**		1	2720	6750	361	428	2.5	2.5	108.0
	450	250	250	368	3.0	3.0	**340RV4502**		3	2720	6750	361	428	2.5	2.5	108.0
	480	350	350	378	4.0	4.0	**340RV4801**		1	4050	9400	364	454	3.0	3.0	198.0
345	480	350	350	376	3.0	3.0	**345RV4821**		6	4400	10300	366	457	2.5	2.5	190.0
360	480	290	290	394	3.0	3.0	**360RV4801**		1	3250	8300	381	457	2.5	2.5	146.0
	510	370	370	400	4.0	4.0	**360RV5101**		1	4500	10100	384	484	3.0	3.0	234.0
370	480	250	250	401	3.0	3.0	**370RV4801**		1	2830	7350	391	457	2.5	2.5	116.0
	520	380	380	409	4.0	2.0	**370RV5211**		1	6000	14400	394	500	3.0	2.0	263.0
	540	400	400	415	4.0	4.0	**370RV5401**		1	5250	12000	394	513	3.0	3.0	311.0
380	500	290	290	414	3.0	3.0	**380RV5001**		1	3350	8800	401	477	2.5	2.5	153.0
	520	290	290	418	4.0	4.0	**380RV5201**		1	3750	8850	404	493	3.0	3.0	181.0
	520	280	280	417	4.0	4.0	**380RV5202**		1	3650	8450	404	493	3.0	3.0	174.0
	540	340	340	424	5.0	5.0	**380RV5431**		4	4700	10900	408	509	4.0	4.0	259.0
	540	400	400	424	5.0	5.0	**380RV5401**		3	5050	12000	408	509	4.0	4.0	280.0
	540	400	400	422	5.0	2.0	**380RV5411**		8	6000	14400	408	520	4.0	2.0	305.0
	540	400	380	424	5.0	2.0	**380RV5412**		1	5750	13800	408	520	4.0	2.0	294.0

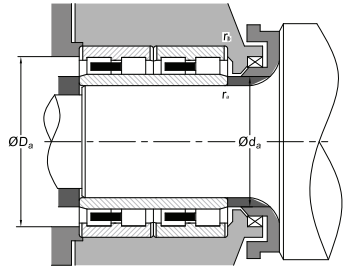
Note: ① Designs refer to pages E54 and E55.

Four Row Cylindrical Roller Bearings UBC

Cylindrical Bore

d: 390.000~500.000mm





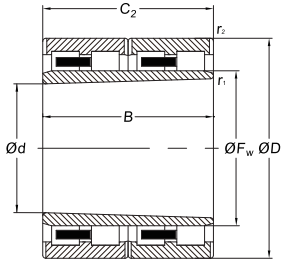
Principal Dimensions (mm)							Bearing Designations		Design①	Basic Load Ratings (kN)		Abutment and Fillet Dimensions (mm)				Weight (kg)
d	D	B	C_2	F_w	r_1 (min)	r_2 (min)				Dynamic C_r	Static C_{or}	d_a (min)	D_a (max)	r_a (max)	r_b (max)	
390	510	290	290	424	3.0	3.0	**390RV5101**		1	3400	9000	412	487	2.5	2.5	156.0
	550	400	400	434	5.0	5.0	**390RV5521**		6	5150	12400	419	519	4.0	4.0	303.0
400	520	250	250	432	4.0	4.0	**400RV5202**		3	3000	7700	425	493	3.0	3.0	136.0
	550	300	300	441	4.0	4.0	**400RV5501**		1	4150	9750	425	523	3.0	3.0	212.0
	560	400	400	446	5.0	5.0	**400RV5612**		8	5650	13600	429	529	4.0	4.0	308.0
	560	410	410	445	5.0	2.0	**400RV5613**		8M	6550	16500	429	539	4.0	2.0	315.0
	560	400	400	446	5.0	5.0	**400RV5621**		6	4750	11300	429	529	4.0	4.0	304.0
	560	410	410	445	5.0	2.0	**400RV5611**		8	6550	16500	429	539	4.0	2.0	315.0
406.400	609.6	304.8	304.8	460	5.0	5.0	**406RV6001**		1	4650	9150	435	577	4.0	4.0	307.0
410	600	440	440	460	5.0	5.0	**410RV6011**		8	7350	16600	439	568	4.0	4.0	438.0
420	560	280	280	457	4.0	4.0	**420RV5601**		1	3800	9250	445	533	3.0	3.0	190.0
	560	400	400	458	4.0	4.0	**420RV5602**		6	4950	13000	445	533	3.0	3.0	270.0
	600	440	440	470	5.0	2.0	**420RV6011**		8	7100	17200	449	579	4.0	2.0	419.0
430	591	420	420	476	4.0	4.0	**430RV5921**		5	5200	13400	455	563	3.0	3.0	347.0
440	620	450	450	487	5.0	5.0	**440RV6213**		8	7350	17800	470	588	4.0	4.0	430.0
	620	450	450	490	4.0	4.0	**440RV6221**		5	7450	19000	466	591	3.0	3.0	430.0
450	630	450	450	500	4.0	4.0	**450RV6321**		5	6950	17500	476	601	3.0	3.0	440.0
460	620	400	400	506	4.0	4.0	**460RV6201**		1	5500	14700	486	591	3.0	3.0	347.0
	620	400	400	502	4.0	4.0	**460RV6211**		8	6400	16600	486	591	3.0	3.0	358.0
	620	460	460	502	4.0	4.0	**460RV6212**		8M	7100	19100	486	591	3.0	3.0	412.0
	650	470	470	509	6.0	3.0	**460RV6511**		8	8400	20900	496	624	5.0	2.5	514.0
	670	500	500	522	6.0	6.0	**460RV6721**		7	8900	22700	496	631	5.0	5.0	596.0
480	680	500	500	534	5.0	5.0	**480RV6801**		7	9000	23100	510	646	4.0	4.0	610.0
	680	500	500	534	5.0	5.0	**480RV6811**		8	9000	23100	510	646	4.0	4.0	610.0
	700	400	400	538	6.0	6.0	**480RV7031**		9	7650	17400	517	660	5.0	5.0	538.0
500	670	450	450	540	5.0	5.0	**500RV6712**		8	8300	22300	531	637	4.0	4.0	464.0
	680	420	405	550	5.0	5.0	**500RV6812**		8	6700	17600	531	646	4.0	4.0	451.0
	690	510	510	550	5.0	5.0	**500RV6913**		8M	8850	23900	531	656	4.0	4.0	580.0
	690	510	510	552	5.0	5.0	**500RV6921**		7	9000	24600	531	656	4.0	4.0	580.0
	700	515	515	554	5.0	5.0	**500RV7021**		7	9100	23800	531	666	4.0	4.0	622.0
	710	480	480	558	5.0	5.0	**500RV7111**		8	8500	21200	531	676	4.0	4.0	632.0
	720	530	530	560	6.0	6.0	**500RV7211**		8	9950	25300	537	680	5.0	5.0	782.0

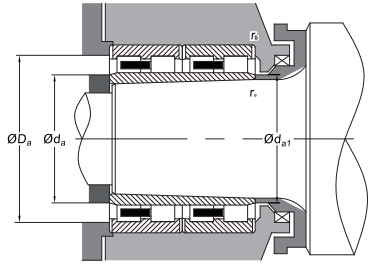
Note: ① Designs refer to pages E54 and E55.
The letter "M" indicates bearing for oil mist lubrication.

Four Row Cylindrical Roller Bearings

Tapered Bore

d: 110.417~633.333mm





Principal Dimensions (mm)							Bearing Designations		Design①	Basic Load Ratings (kN)		Abutment and Fillet Dimensions (mm)					Weight (kg)
d	D	B	C_2	F_w	r_1 (min)	r_2 (min)				Dynamic C_r	Static C_{or}	d_a (min)	d_{a1} (min)	D_a (max)	r_a (max)	r_b (max)	
110.417	180	115	115	136	1.0	1.0	**120RVK1801**		10	490	840	118	128	171	1.0	1.0	10.0
151.500	230	168	168	180	1.0	1.0	**165RVK2331**		11	1040	2170	160	174	220	1.0	1.0	23.5
179.750	260	175	168	212	1.1	2.0	**193RVK2602**		10	1140	2600	190	205	245	1.0	2.0	25.1
180	260	175	168	212	1.1	2.0	**194RVK2602**		10	1140	2600	191	206	245	1.0	2.0	25.0
181.500	260	168	168	209	1.0	2.0	**195RVK2602**		10	1140	2600	191	205	245	1.0	2.0	24.2
235.367	360	268	268	278	1.5	1.5	**257RVK3631**		11	2770	6000	249	272	344	1.5	1.5	92.9
266.250	400	285	285	312	2.0	2.0	**290RVK4031**		11	3200	7500	281	305	383	2.0	2.0	118.0
356.667	550	400	400	434	5.0	5.0	**390RVK5531**		12	5450	13300	385	419	519	4.0	4.0	328.0
	550	400	400	431.9	3.0	2.5	**390RVK5532**		12	5450	13300	378	412	527	2.5	2.0	328.0
412.335	650	488	488	494.5	3.0	4.0	**453RVK6521**		12	8900	21100	434	476	621	2.5	3.0	603.0
485	740	540	540	580	5.0	5.0	**530RVK7431**		13	10100	26800	516	561	705	4.0	4.0	823.0
633.333	960	680	680	745.8	7.5	7.5	**690RVK9632**		13	18100	47000	679	737	909	6.0	6.0	1720.0

Note: ① Designs refer to pages E54 and E55.