



Cylindrical roller bearings

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Cylindrical roller bearings

The cylindrical roller bearings (CRBs) manufactured by RKB are produced in many designs, dimensions and series, to withstand heavy radial loads and medium speeds, covering most of the requirements in a variety of standard and special industrial applications. All CRBs manufactured by RKB offers the highest load rating capacities, improved internal geometry, high quality materials and special heat treatments for superior performance. RKB CRBs are available with cylindrical or tapered bore in single, double or multi row configuration. Depending on application requirements, RKB Bainite Hardening Treatment (HB) and High Temperature Dimensional Stabilization (S) can be applied on bearing rings and rollers. The bearing dimensional and running accuracy conforms to ISO/ABMA/GOST specifications.



Single row cylindrical roller bearings

RKB offers a wide range of single row cylindrical roller bearing designs in normal or reinforced execution with increased performance in critical applications. Roller and raceway profiles are designed to attain optimized stress distribution while minimizing the edge effect, especially under critical conditions. The portfolio of RKB single row CRBs is finally enhanced by the high-capacity full complement bearings (cageless), which reach higher load carrying capacities within the same boundary dimensions.

Radial internal clearance

Single row cylindrical roller bearings are produced as standard with Normal radial clearance CN, but they are available with C2, C3, C4 and C5 radial clearance, in accordance with the ISO 5753:2009.

Bearings with special radial clearance different than ISO 5753:2009 can be manufactured on request. The radial internal clearance of cylindrical roller bearings with cylindrical bore can be found in **Tab. 1 page 127**. The radial internal clearance of cylindrical roller bearings with tapered bore can be found in **Tab. 2 page 128** and they are valid only for bearing unmounted and unloaded.

d [mm]		Radial internal clearance [μm]									
		C2		CN		C3		C4		C5	
over	incl.	min.	max.	min.	max.	min.	max.	min.	max.	min.	max.
-	10	0	25	20	45	35	60	50	75	-	-
10	24	0	25	20	45	35	60	50	75	65	90
24	30	0	25	20	45	35	60	50	75	70	95
30	40	5	30	25	50	45	70	60	85	80	105
40	50	5	35	30	60	50	80	70	100	95	125
50	65	10	40	40	70	60	90	80	110	110	140
65	80	10	45	40	75	65	100	90	125	130	165
80	100	15	50	50	85	75	110	105	140	155	190
100	120	15	55	50	90	85	125	125	165	180	220
120	140	15	60	60	105	100	145	145	190	200	245
140	160	20	70	70	120	115	165	165	215	225	275
160	180	25	75	75	125	120	170	170	220	250	300
180	200	35	90	90	145	140	195	195	250	275	330
200	225	45	105	105	165	160	220	220	280	305	365
225	250	45	110	110	175	170	235	235	300	330	395
250	280	55	125	125	195	190	260	260	330	370	440
280	315	55	130	130	205	200	275	275	350	410	485
315	355	65	145	145	225	225	305	305	385	455	535
355	400	100	190	190	280	280	370	370	460	510	600
400	450	110	210	210	310	310	410	410	510	565	665
450	500	110	220	220	330	330	440	440	550	625	735
500	560	120	240	240	360	360	480	480	600	-	-
560	630	140	260	260	380	380	500	500	620	-	-
630	710	145	285	285	425	425	565	565	705	-	-
710	800	150	310	310	470	470	630	630	790	-	-
800	900	180	350	350	520	520	690	690	860	-	-
900	1000	200	390	390	580	580	770	770	960	-	-
1000	1120	220	430	430	640	640	850	850	1060	-	-
1120	1250	230	470	470	710	710	950	950	1190	-	-
1250	1400	270	530	530	790	790	1050	1050	1310	-	-
1400	1600	330	610	610	890	890	1170	1170	1450	-	-
1600	1800	380	700	700	1020	1020	1340	1340	1660	-	-
1800	2000	400	760	760	1120	1120	1480	1480	1840	-	-

Tab. 1 - Radial internal clearance of cylindrical roller bearings with cylindrical bore

d [mm]		Radial internal clearance [μm]							
		C2		CN		C3		C4	
over	incl.	min.	max.	min.	max.	min.	max.	min.	max.
–	10	15	40	30	55	40	65	50	75
10	24	15	40	30	55	40	65	50	75
24	30	20	45	35	60	45	70	55	80
30	40	20	45	40	65	55	80	70	95
40	50	25	55	45	75	60	90	75	105
50	65	30	60	50	80	70	100	90	120
65	80	35	70	60	95	85	120	110	145
80	100	40	75	70	105	95	130	120	155
100	120	50	90	90	130	115	155	140	180
120	140	55	100	100	145	130	175	160	205
140	160	60	110	110	160	145	195	180	230
160	180	75	125	125	175	160	210	195	245
180	200	85	140	140	195	180	235	220	275
200	225	95	155	155	215	200	260	245	305
225	250	105	170	170	235	220	285	270	335
250	280	115	185	185	255	240	310	295	365
280	315	130	205	205	280	265	340	325	400
315	355	145	225	225	305	290	370	355	435
355	400	165	255	255	345	330	420	405	495
400	450	185	285	285	385	370	470	455	555
450	500	205	315	315	425	410	520	505	615
500	560	230	350	350	470	455	575	560	680
560	630	260	380	380	500	500	620	620	740
630	710	295	435	435	575	565	705	695	835
710	800	325	485	485	645	630	790	775	935
800	900	370	540	540	710	700	870	860	1 030
900	1 000	410	600	600	790	780	970	960	1 150
1 000	1 120	455	665	665	875	865	1 075	1 065	1 275
1 120	1 250	490	730	730	970	960	1 200	1 200	1 440
1 250	1 400	550	810	810	1 070	1 070	1 330	1 330	1 590
1 400	1 600	640	920	920	1 200	1 200	1 480	1 480	1 760
1 600	1 800	700	1 020	1 020	1 340	1 340	1 660	1 660	1 980
1 800	2 000	760	1 120	1 120	1 480	1 480	1 840	1 840	2 200

Tab. 2 - Radial internal clearance of cylindrical roller bearings with tapered bore

Misalignment

The permissible misalignment between the shaft and the seat of a single row cylindrical roller bearing is restricted to a few minutes of arc. In particular we can theoretically estimate:

- 4 minutes of arc for bearings in the 10, 12, 2, 3 and 4 series;
- 3 minutes of arc for bearings in the 18, 19, 20, 22 and 23 series.

These values are applied for the non-locating bearings, if the shaft and housing axes remain unchanged. Larger values of misalignment may be used, but with negative consequences regarding the bearing life. When the bearings are used in locating position, the permissible misalignments have to be reduced since an axial load in the bearing rib may generate heavy wear or a crack of the rib.

Bearing type NUP and NJ with HJ angle ring have two ribs on the inner ring and two ribs on the outer ring with a relatively small axial displacement. For this reason it is not possible to apply the permissible misalignment values given in the guideline since an axial stress may be generated, causing a premature failure of the bearing. For additional information, please consult the RKB application engineering service.

Axial displacement

RKB cylindrical roller bearing NU, N and NJ design allow axial displacement of the shaft with respect to the housing in order to withstand thermal gradient of temperature that may lead to axial movement.

Minimum load

A minimum radial load is requested for single row cylindrical roller bearings to allow the correct functioning, especially in critical working conditions like: high speed, high acceleration and sudden changes of rotating

direction. In these operating conditions, a skidding between rollers and raceways can be generated by the inertial forces, influencing negatively the bearing life. Assuming a continuous operation, the minimum radial load can be estimated using the following formula:

$$F_{rm} > \frac{C_{0r}}{50}$$

Where:

- F_{rm} minimum radial load, [kN];
- C_{0r} static load rating, [kN].

Usually, the minimum radial load is reached or surpassed by the weight of the components supported by the bearing together with the loads acting on it, otherwise supplementary radial load must be applied. In application where a starting up at a low temperature is planned or a lubricant with high viscosity is used, a greater minimum radial load is required.

Axial load carrying capacities

RKB cylindrical roller bearings featuring ribs on both inner and outer rings can withstand thrust load according to dissipation and lubrication among roller heads and rib contact surfaces.

In order to withstand continuous axial loads the bearings have to be subject to a simultaneous radial force, while bearing ribs have to be supported across their full height.

The maximum axial load has to be in compliance with the following disequations:

$$F_a \leq 0,4 F_r$$

$$F_a \leq \frac{K_1 \cdot K_2 \cdot d_m^{1,5} \cdot n^{-0,6}}{1000}$$

$$F_a \leq \frac{K_2 \cdot d_m^2}{1000}$$

Where:

- F_a maximum axial load, [kN];
- K_1 experimental factor connected with lubrication system, [kN] see following **Tab. 3 page 130;**
- K_2 experimental factor connected with bearing series see following **Tab. 4 page 130;**
- n operating speed [rpm];
- d_m mean bearing diameter [mm];

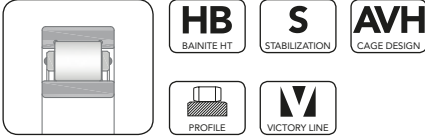
Lubrication system	Factor K_1
Minimal heat dissipation	122,7
Average heat dissipation, oil splash system	182,7
Good heat dissipation, recirculating oil system	213,4
Very good heat dissipation, recirculating oil system with external cooler	285,3
Tab. 3 - Experimental Factor K_1	

Series	Factor K_2
NJ2, NJ22, NUP2, NUP22	1,11
NJ3, NJ23, NUP3, NUP23	1,47
NJ4	1,52
Tab. 4 - Experimental Factor K_2	

For additional information regarding the above limits please consult the RKB application engineering services.

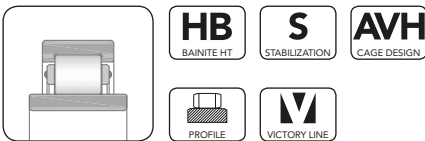
Designs and variants

Type NU



- Outer ring with two integral side ribs
- Ribless inner ring
- Two-piece machined brass cage guided on rollers (M) or outer ring (MA)
- Available with riveted or AVH cage also with lubrication grooves
- Optimized raceway geometry and roller profile
- To be used in non-locating position

Type NUB



- Outer ring with two integral side ribs
- Wider ribless inner ring
- Two-piece machined brass cage guided on rollers (M) or outer ring (MA)
- Available with riveted or AVH cage also with lubrication grooves
- Optimized raceway geometry and roller profile
- To be used in non-locating position

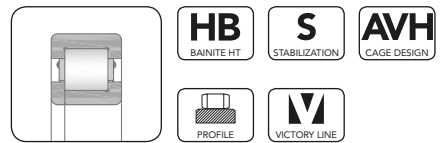
Type N



- Ribless outer ring

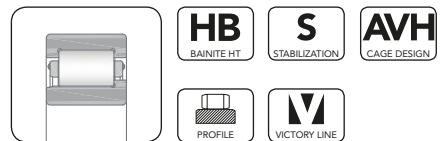
- Inner ring with two integral side ribs
- Two-piece machined brass cage guided on rollers (M) or inner ring (MB)
- Lubrication grooves in side faces of inner ring
- Available with riveted or AVH cage also with lubrication grooves
- Optimized raceway geometry and roller profile
- To be used in non-locating position

Type NUP



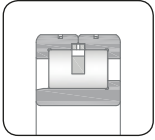
- Outer ring with two integral side ribs
- Inner ring with one integral side rib and one loose rib
- Two-piece machined brass cage guided on rollers (M) or outer ring (MA)
- Available with riveted or AVH cage also with lubrication grooves
- Optimized raceway geometry and roller profile
- Can be used in locating position

Type NJ



- Outer ring with two integral side ribs
- Inner ring with one integral side rib
- Two-piece machined brass cage guided on rollers (M) or outer ring (MA)
- Available with riveted or AVH cage also with lubrication grooves
- Optimized raceway geometry and roller profile
- Can be used in one direction locating position

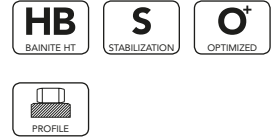
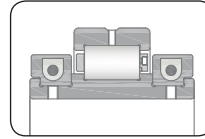
Type NJGL



- Outer ring circumferentially split
- Inner ring with one integral side rib
- Lamellar brass cage design
- Designed to maintain high carrying capacities without compromising the rotational speed capability
- Optimized raceway geometry and roller profile

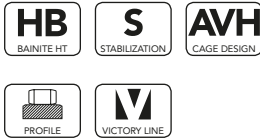
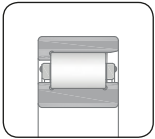
- Available with riveted or AVH cage also with lubrication grooves
- Optimized raceway geometry and roller profile
- Can be used in one direction locating position

Split type SCRB FIXED/LOOSE



- Design used for medium and large size bearings
- Wider inner ring with integral side ribs
- Two-piece window type
- Engineered for hard-to-reach positions (e.g. universal joint drive shaft supporting)
- Design for easy mounting, dismounting and maintenance to reduced machine downtime
- Available in locating and non-locating configuration
- Available in taylor-made dimension
- Optimized raceway geometry and roller profile

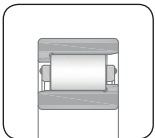
Type NF



- Outer ring with one integral side rib
- Inner ring with two integral side ribs
- Two-piece machined brass cage guided on rollers (M) or outer ring (MA)
- Available with riveted or AVH cage also with lubrication grooves
- Optimized raceway geometry and roller profile
- Can be used in one direction locating position

- Design used for medium and large size bearings
- Wider inner ring with integral side ribs
- Two-piece window type
- Engineered for hard-to-reach positions (e.g. universal joint drive shaft supporting)
- Design for easy mounting, dismounting and maintenance to reduced machine downtime
- Available in locating and non-locating configuration
- Available in taylor-made dimension
- Optimized raceway geometry and roller profile

Type NJF



- Outer ring with one integral side rib
- Inner ring with one integral side rib
- Two-piece machined brass cage guided on rollers (M) or outer ring (MA)

Prefixes

L	In a separable bearing: separate inner ring
R	In a separable bearing: outer ring with roller and cage assembly
SCRB	Out of standard split cylindrical roller bearing followed by drawing number

Suffixes

Internal Design

E	Optimized internal design with reinforced execution
EC	Optimized internal design for increased load ratings
SP	Special or non-standard bearing
ZB	Optimized roller profile for improved load distribution. It is not necessarily stated in the bearing code

Suffixes

Cage

MP1	One-piece solid HBSC1 brass cage guided on rollers
MP1A	One-piece solid HBSC1 brass cage guided on outer ring
MP1B	One-piece solid HBSC1 brass cage guided on inner ring
M	Machined brass cage guided on rollers
MA	Machined brass cage guided on outer ring
MAS	Machined brass cage guided on outer ring with lubrication grooves in the guiding surface
MB	Machined brass cage guided on inner ring
MBS	Machined brass cage guided on inner ring with lubrication grooves in the guiding surface
J	Pressed steel cage
TN or ATN	Molded polyamide cage (PA66) guided on rollers
TN9	Molded glass fiber-reinforced polyamide cage (PA66-GF25) guided on rollers
AVH	Machined brass cage with round or square integral rivets guided on outer ring (MA), inner ring (MB) or rollers (M)

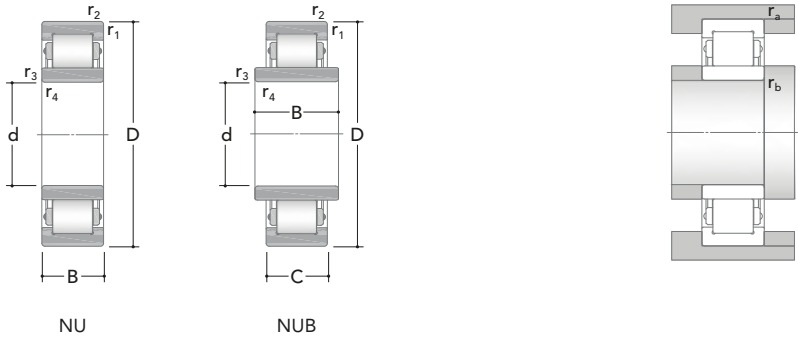
Suffixes

Accuracy, clearance, running

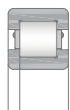
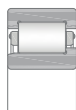
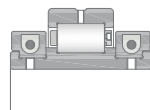
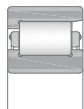
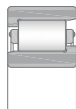
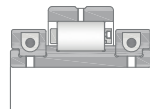
C2	Radial internal clearance less than CN
CN	Standard radial internal clearance
C3	Radial internal clearance greater than Normal (CN)
C4	Radial internal clearance greater than C3
C5	Radial internal clearance greater than C4
CS	Special radial internal clearance
P6	Dimensional and running accuracy as per ISO tolerances Class 6

Suffixes	External design
K	Tapered bore, taper 1:12
K30	Tapered bore, taper 1:30
N	Snap ring groove in outer ring
N1	One locating slot in outer ring
N2	Two locating slots in outer ring

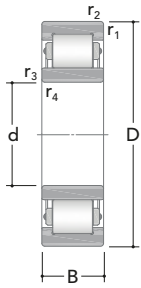




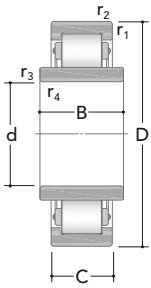
Main dimensions				Basic load ratings		Fatigue load limit	Speed ratings		Designation
d	D	B	C	Dynamic C	Static C ₀	C _u	Reference	Limiting	Standard design
[mm]				[kN]			[rpm]		
15	35	11	-	12,7	10,1	1,21	21400	23200	NU 202
17	40	12	-	17	14,1	1,71	18400	19700	NU 203
	40	16	-	23,5	21,4	2,63	18400	19600	NU 2203
	47	14	-	24,3	20,2	2,53	14600	17200	NU 303
20	47	14	-	25,2	21,9	2,74	15600	16400	NU 204
	47	18	-	29,6	27	3,39	15500	16600	NU 2204
	52	15	-	35,4	25,9	3,24	14500	15900	NU 304
	52	21	-	47	37,9	4,8	14500	15400	NU 2304
25	47	12	-	14,3	13,1	1,4	16300	15500	NU 1005
	52	15	-	28	26,7	3,31	13400	13800	NU 205
	52	18	-	38,6	33,7	4,21	13600	14300	NU 2205
	62	17	-	46,6	36,4	4,54	11500	13100	NU 305
	62	24	-	63,8	54,3	6,86	11700	13200	NU 2305
30	55	13	-	17,7	17,3	1,86	13600	13100	NU 1006
	62	16	-	44,5	36,1	4,5	12100	12400	NU 206
	62	20	-	55	48,2	6	11700	12400	NU 2206
	72	19	-	59,3	47,4	6,1	10100	10300	NU 306
	72	27	-	83,9	75	9,65	10300	10600	NU 2306
	90	23	-	60,5	52,5	6,7	8600	9400	NU 406
35	62	14	-	35,5	37,4	4,48	11600	11200	NU 1007
	72	17	-	56	47,7	6,1	9900	10300	NU 207
	72	23	-	69,4	62,2	8,05	10000	10700	NU 2207
	80	21	-	74,2	62	8,02	9000	9500	NU 307
	80	31	-	105	96,8	12,5	9100	9500	NU 2307
	100	25	-	77	68,4	9	7700	8300	NU 407
40	68	15	-	24,7	25,9	3	11700	15500	NU 1008
	80	18	-	62,6	52,9	6,7	9200	9500	NU 208

**N****NUP****NJ****SCRB FIXED****NJGL****NF****NJF****SCRB LOOSE**

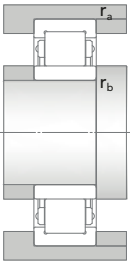
Dimensions					Mass	Designation		
d	r _{1,2min}	r _{3,4min}	r _{amax}	r _{bmax}		Standard design	Alternative design	Angle ring
[mm]					[kg]			
15	0,6	0,3	0,6	0,3	0,047	NU 202	N, NJ, NUP	-
17	0,6	0,3	0,6	0,3	0,068	NU 203	N, NJ, NUP	-
	0,6	0,3	0,6	0,3	0,087	NU 2203	N, NJ, NUP	-
	1	0,6	1	0,6	0,12	NU 303	N, NJ, NUP	-
20	1	0,6	1	0,6	0,11	NU 204	N, NJ, NUP	-
	1	0,6	1	0,6	0,14	NU 2204	N, NJ, NUP	-
	1,1	0,6	1	0,6	0,15	NU 304	N, NJ, NUP	HJ 304
	1,1	0,6	1	0,6	0,21	NU 2304	N, NJ, NUP	-
25	0,6	0,3	0,6	0,3	0,083	NU 1005	N, NJ, NUP	-
	1	0,6	1	0,6	0,13	NU 205	N, NJ, NUP	HJ 205
	1	0,6	1	0,6	0,16	NU 2205	N, NJ, NUP	HJ 2205
	1,1	1,1	1	1	0,23	NU 305	N, NJ, NUP	HJ 305
	1,1	1,1	1	1	0,34	NU 2305	N, NJ, NUP	HJ 2305
30	1	0,6	1	0,6	0,12	NU 1006	N, NJ, NUP	-
	1	0,6	1	0,6	0,2	NU 206	N, NJ, NUP	HJ 206
	1	0,6	1	0,6	0,26	NU 2206	N, NJ, NUP	-
	1,1	1,1	1	1	0,36	NU 306	N, NJ, NUP	HJ 306
	1,1	1,1	1	1	0,53	NU 2306	N, NJ, NUP	-
	1,5	1,5	1,5	1,5	0,75	NU 406	N, NJ, NUP	HJ 406
35	1	0,6	1	0,6	0,16	NU 1007	N, NJ, NUP	-
	1,1	0,6	1	0,6	0,29	NU 207	N, NJ, NUP	HJ 207
	1,1	0,6	1	0,6	0,4	NU 2207	N, NJ, NUP	-
	1,5	1,1	1,5	1	0,47	NU 307	N, NJ, NUP	HJ 307
	1,5	1,1	1,5	1	0,72	NU 2307	N, NJ, NUP	-
	1,5	1,5	1,5	1,5	1	NU 407	N, NJ, NUP	-
40	1	0,6	1	0,6	0,23	NU 1008	N, NJ, NUP	-
	1,1	1,1	1	1	0,37	NU 208	N, NJ, NUP	HJ 208



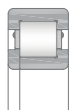
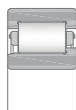
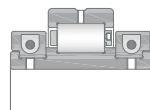
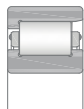
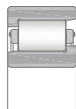
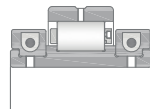
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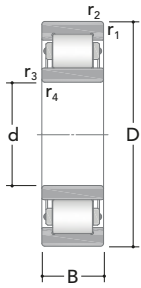
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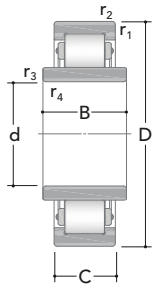
Main dimensions				Basic load ratings		Fatigue load limit	Speed ratings		Designation
d	D	B	C	Dynamic C	Static C ₀	C _u	Reference	Limiting	Standard design
[mm]				[kN]			[rpm]		
40 (cont.)	80	23	-	81,4	74,7	9,61	9000	9600	NU 2208
	90	23	-	92,8	77,7	10,2	7700	8500	NU 308
	90	33	-	128	118	15	7700	8300	NU 2308
	110	27	-	96,1	89,6	11,5	6800	7300	NU 408
45	75	16	-	44,2	51,6	6,3	9800	9600	NU 1009
	85	19	-	69,1	62,8	8	8000	8200	NU 209
	85	23	-	86	80,3	10,4	8400	8200	NU 2209
	100	25	-	111	98,4	12,7	7100	7400	NU 309
	100	36	-	160	152	20	7200	7300	NU 2309
	120	29	-	104	101	13,3	6200	6500	NU 409
50	80	16	-	46,4	55,2	6,6	8800	8500	NU 1010
	90	20	-	74	69,1	8,7	7700	7800	NU 210
	90	23	-	90	87,7	11,4	7600	7700	NU 2210
	110	27	-	125	111	15	6500	6900	NU 310
	110	40	-	188	184	24,2	6400	7000	NU 2310
	130	31	-	130	125	16,3	5800	6200	NU 410
55	90	18	-	57,1	69,2	8,3	7600	7600	NU 1011
	100	21	-	97	94,5	12,1	6800	7100	NU 211
	100	25	-	114	117	15,2	6800	6900	NU 2211
	120	29	-	153	143	18,6	5800	6000	NU 311
	120	43	-	230	228	30	5700	6200	NU 2311
	140	33	-	142	139	18,5	5300	5600	NU 411
60	95	18	-	37,5	43,5	5,2	7700	11600	NU 1012
	110	22	-	106	101	13,3	6200	6600	NU 212
	110	28	-	148	152	20	6400	6700	NU 2212
	130	31	-	175	160	21,2	5400	6000	NU 312
	130	46	-	257	261	34	5400	6000	NU 2312
	150	35	-	170	170	22	4800	5200	NU 412

**N****NUP****NJ****SCRB FIXED****NJGL****NF****NJF****SCRB LOOSE**

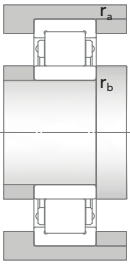
Dimensions					Mass	Designation		
d	r _{1,2min}	r _{3,4min}	r _{amax}	r _{bmax}		Standard design	Alternative design	Angle ring
[mm]					[kg]			
40	1,1	1,1	1	1	0,49	NU 2208	N, NJ, NUP	HJ 2208
(cont.)	1,5	1,5	1,5	1,5	0,65	NU 308	N, NJ, NUP	HJ 308
	1,5	1,5	1,5	1,5	0,94	NU 2308	N, NJ, NUP	-
	2	2	2	2	1,3	NU 408	N, NJ, NUP	-
45	1	0,6	1	0,6	0,25	NU 1009	N, NJ, NUP	-
	1,1	1,1	1	1	0,43	NU 209	N, NJ, NUP	HJ 209
	1,1	1,1	1	1	0,52	NU 2209	N, NJ, NUP	-
	1,5	1,5	1,5	1,5	0,9	NU 309	N, NJ, NUP	HJ 309
	1,5	1,5	1,5	1,5	1,3	NU 2309	N, NJ, NUP	-
	2	2	2	2	1,65	NU 409	N, NJ, NUP	HJ 409
50	1	0,6	1	0,6	0,27	NU 1010	N, NJ, NUP	-
	1,1	1,1	1	1	0,48	NU 210	N, NJ, NUP	HJ 210
	1,1	1,1	1	1	0,56	NU 2210	N, NJ, NUP	-
	2	2	2	2	1,15	NU 310	N, NJ, NUP	HJ 310
	2	2	2	2	1,75	NU 2310	N, NJ, NUP	-
	2,1	2,1	2	2	2	NU 410	N, NJ, NUP	HJ 410
55	1,1	1	1	1	0,39	NU 1011	N, NJ, NUP	
	1,5	1,1	1,5	1	0,66	NU 211	N, NJ, NUP	HJ 211
	1,5	1,1	1,5	1	0,79	NU 2211	N, NJ, NUP	HJ 2211
	2	2	2	2	1,45	NU 311	N, NJ, NUP	HJ 311
	2	2	2	2	2,2	NU 2311	N, NJ, NUP	HJ 2311
	2,1	2,1	2	2	2,5	NU 411	N, NJ, NUP	
60	1,1	1	1	1	0,5	NU 1012	N, NJ, NUP	-
	1,5	1,5	1,5	1,5	0,8	NU 212	N, NJ, NUP	HJ 212
	1,5	1,5	1,5	1,5	1,05	NU 2212	N, NJ, NUP	HJ 212
	2,1	2,1	2	2	1,75	NU 312	N, NJ, NUP	HJ 312
	2,1	2,1	2	2	2,75	NU 2312	N, NJ, NUP	HJ 2312
	2,1	2,1	2	2	3	NU 412	N, NJ, NUP	-



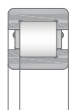
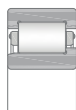
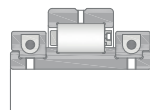
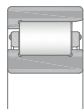
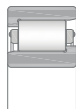
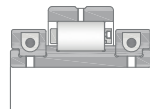
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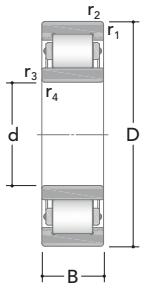
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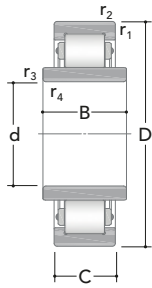
Main dimensions				Basic load ratings		Fatigue load limit	Speed ratings		Designation
d	D	B	C	Dynamic C	Static C ₀	C _u	Reference	Limiting	Standard design
[mm]				[kN]			[rpm]		
65	100	18	-	63	81	9,7	6800	6400	NU 1013
	120	23	-	121	117	15,5	5600	6000	NU 213
	120	31	-	170	180	24	5600	6000	NU 2213
	140	33	-	212	193	25,1	5100	5300	NU 313
	140	48	-	287	289	38	5100	5300	NU 2313
	160	37	-	181	189	24	4600	4800	NU 413
70	110	20	-	77,3	91,9	12	6300	6200	NU 1014
	125	24	-	137	135	18	5400	5600	NU 214
	125	31	-	182	191	25,2	5300	5600	NU 2214
	150	35	-	235	224	28	4600	4900	NU 314
	150	51	-	315	323	41,2	4600	4900	NU 2314
	180	42	-	231	237	30	4200	4500	NU 414
75	115	20	-	58	70,1	8,4	6500	8600	NU 1015
	130	25	-	149	153	20	5000	5300	NU 215
	130	31	-	188	204	26	5100	5300	NU 2215
	160	37	-	277	264	33,4	4300	4700	NU 315
	160	55	-	380	394	49	4300	4700	NU 2315
	190	45	-	265	275	33	3800	4200	NU 415
80	125	22	-	64,5	77,9	9,8	5800	5600	NU 1016
	140	26	-	159	163	20,8	4700	4900	NU 216
	140	33	-	214	243	31	4700	4900	NU 2216
	170	39	-	294	287	36	4200	4300	NU 316
	170	58	-	413	439	55	4100	4300	NU 2316
	200	48	-	303	317	39	3600	4000	NU 416
85	130	22	-	68,1	84,8	10,6	5700	7800	NU 1017
	150	28	-	187	197	25	4500	4700	NU 217
	150	36	-	250	279	34,4	4400	4500	NU 2217
	180	41	-	339	329	40,8	3800	4200	NU 317
	180	60	-	449	483	59	3900	4300	NU 2317

**N****NUP****NJ****SCRB FIXED****NJGL****NF****NJF****SCRB LOOSE**

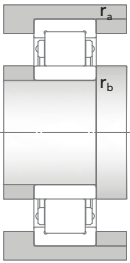
Dimensions					Mass	Designation		
d	r _{1,2min}	r _{3,4min}	r _{amax}	r _{bmax}		Standard design	Alternative design	Angle ring
[mm]					[kg]			
65	1,1	1	1	1	0,45	NU 1013	N, NJ, NUP	-
	1,5	1,5	1,5	1,5	1,05	NU 213	N, NJ, NUP	HJ 213
	1,5	1,5	1,5	1,5	1,4	NU 2213	N, NJ, NUP	HJ 2213
	2,1	2,1	2	2	2,2	NU 313	N, NJ, NUP	HJ 313
	2,1	2,1	2	2	3,2	NU 2313	N, NJ, NUP	HJ 2313
	2,1	2,1	2	2	3,55	NU 413	N, NJ, NUP	HJ 413
70	1,1	1	1	1	0,62	NU 1014	N, NJ, NUP	HJ 1014
	1,5	1,5	1,5	1,5	1,15	NU 214	N, NJ, NUP	HJ 214
	1,5	1,5	1,5	1,5	1,5	NU 2214	N, NJ, NUP	HJ 2214
	2,1	2,1	2	2	2,7	NU 314	N, NJ, NUP	HJ 314
	2,1	2,1	2	2	3,95	NU 2314	N, NJ, NUP	HJ 2314
	3	3	2,5	2,5	5,35	NU 414	N, NJ, NUP	HJ 414
75	1,1	1	1	1	0,75	NU 1015	N, NJ, NUP	-
	1,5	1,5	1,5	1,5	1,25	NU 215	N, NJ, NUP	HJ 215
	1,5	1,5	1,5	1,5	1,6	NU 2215	N, NJ, NUP	-
	2,1	2,1	2	2	3,3	NU 315	N, NJ, NUP	HJ 315
	2,1	2,1	2	2	4,8	NU 2315	N, NJ, NUP	HJ 2315
	3	3	2,5	2,5	6,2	NU 415	N, NJ, NUP	HJ 415
80	1,1	1	1	1	0,88	NU 1016	N, NJ, NUP	-
	2	2	2	2	1,55	NU 216	N, NJ, NUP	HJ 216
	2	2	2	2	2	NU 2216	N, NJ, NUP	HJ 216
	2,1	2,1	2	2	3,85	NU 316	N, NJ, NUP	HJ 316
	2,1	2,1	2	2	5,85	NU 2316	N, NJ, NUP	HJ 2316
	3	3	2,5	2,5	7,25	NU 416	N, NJ, NUP	HJ 416
85	1,1	1	1	1	1,05	NU 1017	N, NJ, NUP	-
	2	2	2	2	1,9	NU 217	N, NJ, NUP	HJ 217
	2	2	2	2	2,5	NU 2217	N, NJ, NUP	-
	3	3	2,5	2,5	4,65	NU 317	N, NJ, NUP	HJ 317
	3	3	2,5	2,5	6,85	NU 2317	N, NJ, NUP	HJ 2317



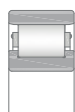
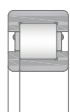
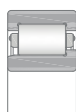
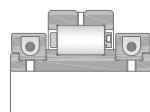
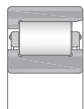
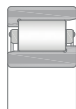
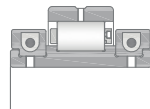
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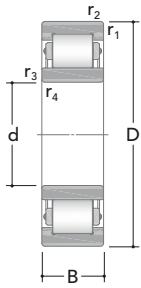
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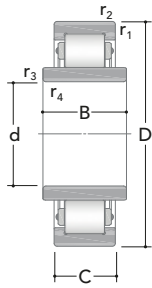
Main dimensions				Basic load ratings		Fatigue load limit	Speed ratings		Designation
d	D	B	C	Dynamic C	Static C ₀	C _u	Reference	Limiting	Standard design
[mm]				[kN]			[rpm]		
85	210	52	-	315	335	39	3400	3700	NU 417
(cont.)									
90	140	24	-	81,1	103	12,6	5400	7500	NU 1018
	160	30	-	207	218	27	4100	4400	NU 218
	160	40	-	277	313	39	4100	4400	NU 2218
	190	43	-	367	354	42	3600	3900	NU 318
	190	64	-	498	534	64,8	3700	3900	NU 2318
	225	54	-	377	408	47	3300	3500	NU 418
95	145	24	-	83,2	110	13,2	5100	7000	NU 1019
	170	32	-	252	264	32,4	3900	4200	NU 219
	170	43	-	327	371	45	3900	4200	NU 2219
	200	45	-	390	387	46,1	3400	3700	NU 319
	200	67	-	533	575	68,3	3400	3800	NU 2319
	240	55	-	410	452	52	3000	3100	NU 419
100	140	20	-	82,4	121	13,6	4900	-	NU 1920
	150	24	-	86,2	113	13,6	4800	6700	NU 1020
	150	30	-	167	239	30,4	3800	-	NU 2020
	165	52	-	307	448	55	3200	-	NU 3120
	180	34	-	289	305	36,5	3900	3900	NU 220
	180	46	-	383	441	53	3800	3900	NU 2220
	180	96	46	257	337	40,1	3400	-	NUB 313638
	180,075	60,325	-	412	581	69	3400	-	319897
	215	47	-	455	440	51	3100	3300	NU 320
	215	73	-	672	727	84	3100	3400	NU 2320
	250	58	-	463	517	58,2	2800	3100	NU 420
105	160	26	-	101,2	136	16	4600	6000	NU 1021
	190	36	-	298	313	36,3	3700	3800	NU 221
	225	49	-	501	491	56	3100	3300	NU 321
	260	60	-	508	561	63	2700	3000	NU 421

**N****NUP****NJ****SCRB FIXED****NJGL****NF****NJF****SCRB LOOSE**

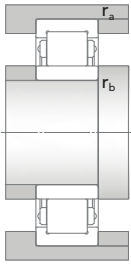
Dimensions					Mass	Designation		
d	r _{1,2min}	r _{3,4min}	r _{amax}	r _{bmax}		Standard design	Alternative design	Angle ring
[mm]					[kg]			
85	4	4	3	3	8,7	NU 417	N, NJ, NUP	HJ 417
(cont.)								
90	1,5	1,1	1,5	1	1,35	NU 1018	N, NJ, NUP	-
	2	2	2	2	2,3	NU 218	N, NJ, NUP	HJ 218
	2	2	2	2	3,15	NU 2218	N, NJ, NUP	HJ 2218
	3	3	2,5	2,5	5,25	NU 318	N, NJ, NUP	HJ 318
	3	3	2,5	2,5	8	NU 2318	N, NJ, NUP	HJ 2318
	4	4	3	3	10,5	NU 418	N, NJ, NUP	-
95	1,5	1,1	1,5	1	1,45	NU 1019	N, NJ, NUP	-
	2,1	2,1	2	2	2,85	NU 219	N, NJ, NUP	HJ 219
	2,1	2,1	2	2	3,8	NU 2219	N, NJ, NUP	-
	3	3	2,5	2,5	6,2	NU 319	N, NJ, NUP	HJ 319
	3	3	2,5	2,5	9,35	NU 2319	N, NJ, NUP	HJ 2319
	4	4	3	3	13,5	NU 419	N, NJ, NUP	-
100	1,1	1	1	1	1	NU 1920	N, NJ, NUP	-
	1,5	1,1	1,5	1	1,45	NU 1020	N, NJ, NUP	-
	1,5	1,1	1,5	1	1,8	NU 2020	N, NJ, NUP	-
	2	1,1	2	1	4,4	NU 3120	N, NJ, NUP	-
	2,1	2,1	2	2	3,4	NU 220	N, NJ, NUP	HJ 220
	2,1	2,1	2	2	4,75	NU 2220	N, NJ, NUP	HJ 2220
	2,1	2,1	2	2	6,7	NUB 313638	-	-
	2,6	2	2,5	2	7,1	319897	-	-
	3	3	2,5	2,5	7,45	NU 320	N, NJ, NUP	HJ 320
	3	3	2,5	2,5	12	NU 2320	N, NJ, NUP	HJ 2320
	4	4	3	3	15,5	NU 420	N, NJ, NUP	HJ 420
105	2	1,1	2	1	1,9	NU 1021	N, NJ, NUP	-
	2,1	2,1	2	2	3,95	NU 221	N, NJ, NUP	HJ 221
	3	3	2,5	2,5	8,55	NU 321	N, NJ, NUP	-
	4	4	3	3	17,5	NU 421	N, NJ, NUP	-



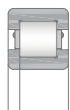
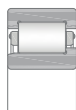
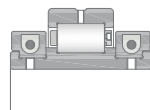
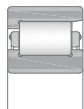
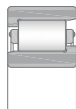
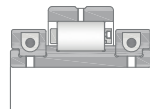
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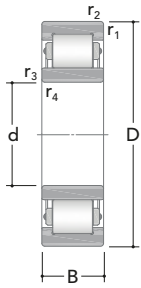
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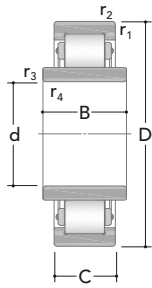
Main dimensions				Basic load ratings		Fatigue load limit	Speed ratings		Designation
d	D	B	C	Dynamic C	Static C ₀	C _u	Reference	Limiting	Standard design
[mm]				[kN]			[rpm]		
110	170	28	-	128	164	19,1	4300	6200	NU 1022
	200	38	-	334	365	42,5	3300	3500	NU 222
	200	53	-	439	520	61	3300	3500	NU 2222
	240	50	-	538	531	60	2800	3000	NU 322
	240	80	-	776	886	100	2800	2900	NU 2322
	280	65	-	525	579	63	2500	2700	NU 422
	260,324	90,075	-	750	955	105	2400	-	467062
120	165	22	-	111	170	19,3	5600	-	NU 1924
	180	28	-	134	181	20,6	3700	5500	NU 1024
	180	36	-	228	349	39,8	3000	-	NU 2024
	200	62	-	414	589	68,2	2700	-	315516
	215	40	-	395	425	48	3000	3200	NU 224
	215	58	-	519	621	71	3000	3100	NU 2224
	215	88	40	339	425	48	2800	-	NUB 322927
	240	80	-	569	764	85	2400	-	322870
	260	55	-	616	609	68,3	2600	2800	NU 324
	260	86	-	897	1035	115	2500	4300	NU 2324
	310	72	-	642	733	78	2300	2400	NU 424
129,921	228,6	79,375	-	666	1010	115	2400	-	322932
130	200	33	-	166	220	25	3500	4900	NU 1026
	200	42	-	296	439	51	2900	-	NU 2026
	200	52	-	352	586	67	2800	-	NU 3026
	230	40	-	421	450	50	2900	2900	NU 226
	230	64	-	615	724	82	2900	2900	NU 2226
	240	80	-	544	768	89	2500	-	235013
	250	75	-	529	747	83	2200	-	609341
	250	80	-	597	806	90,5	2100	-	322880
	260	86	-	715	965	106	2200	-	312733
	280	58	-	731	742	80,6	2300	2600	NU 326
	280	93	-	1058	1230	135	2300	4000	NU 2326

**N****NUP****NJ****SCRB FIXED****NJGL****NF****NJF****SCRB LOOSE**

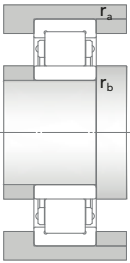
Dimensions					Mass	Designation		
d	r _{1,2min}	r _{3,4min}	r _{amax}	r _{bmax}		Standard design	Alternative design	Angle ring
[mm]					[kg]			
110	2	1,1	2	1	2,3	NU 1022	N, NJ, NUP	-
	2,1	2,1	2	2	4,7	NU 222	N, NJ, NUP	HJ 222
	2,1	2,1	2	2	6,7	NU 2222	N, NJ, NUP	-
	3	3	2,5	2,5	10,5	NU 322	N, NJ, NUP	HJ 322
	3	3	2,5	2,5	17	NU 2322	N, NJ, NUP	HJ 2322
	4	4	3	3	20,5	NU 422	N, NJ, NUP	HJ 422
	2,5	2,5	2,5	2,5	27,3	467062	-	-
120	1,1	0,6	1	0,6	1,4	NU 1924	N, NJ, NUP	-
	2	1,1	2	1	2,45	NU 1024	N, NJ, NUP	-
	2	1,1	1	1,1	3,1	NU 2024	N, NJ, NUP	-
	2	1	1	1	7,8	315516	-	-
	2,1	2,1	2	2	5,6	NU 224	N, NJ, NUP	HJ 224
	2,1	2,1	2	2	8,3	NU 2224	N, NJ, NUP	HJ 2224
	2,1	2,1	2	2	7,6	NUB 322927	-	-
	3,7	3	3,5	2,5	17,8	322870	-	-
	3	3	2,5	2,5	13	NU 324	N, NJ, NUP	HJ 324
	3	3	2,5	2,5	23,5	NU 2324	N, NJ, NUP	HJ 2324
	5	5	4	4	27,5	NU 424	N, NJ, NUP	HJ 424
129,921	5	4	2,5	3	14	322932	-	-
130	2	1,1	2	1	3,75	NU 1026	N, NJ, NUP	-
	2	1,1	1	1,1	4,6	NU 2026	N, NJ, NUP	-
	1,1	1	1	1	6,1	NU 3026	N, NJ, NUP	-
	3	3	2,5	2,5	6,45	NU 226	N, NJ, NUP	HJ 226
	3	3	2,5	2,5	10	NU 2226	N, NJ, NUP	HJ 2226
	4	3	3	2,5	16,7	235013	-	-
	3	2,5	2,5	2	15	609341	-	-
	3,7	3	3,5	2,5	17,5	322880	-	-
	7,5	3	6	2,5	21,5	312733	-	-
	4	4	3	3	16	NU 326	N, NJ, NUP	HJ 326
	4	4	3	3	30	NU 2326	N, NJ, NUP	HJ 2326



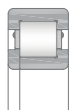
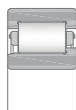
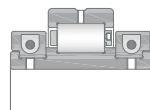
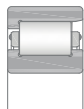
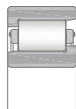
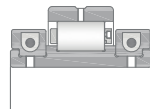
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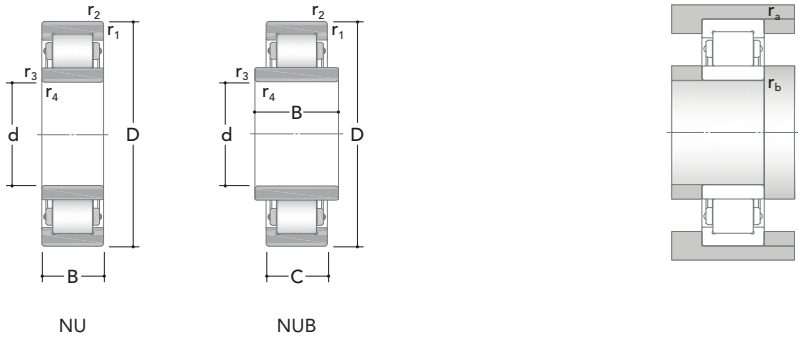
NUB



Main dimensions				Basic load ratings		Fatigue load limit	Speed ratings		Designation
d	D	B	C	Dynamic C	Static C ₀	C _u	Reference	Limiting	Standard design
[mm]				[kN]			[rpm]		
130	281	58	-	634	740	80	2100	-	319926
(cont.)	340	78	-	835	994	101	2000	-	NU 426
140	210	33	-	179	258	28	3200	4700	NU 1028
	210	42	-	311	488	55	2800	-	NU 2028
	250	42	-	456	509	57	2700	2800	NU 228
	250	68	-	652	820	92	2500	4100	NU 2228
	250	60	42	395	503	56	2400	-	NUB 322883
	270	78	-	649	864	93	2000	-	614073
	300	62	-	787	828	88	2300	2400	NU 328
	300	102	-	1214	1410	148	2200	3800	NU 2328
	300	114,3	-	1109	1550	165	2000	-	467063
	360	82	-	915	1060	106	1800	-	NU 428
149,969	320	65	-	818	1010	105	1800	-	313268
150	225	35	-	199	294	31,9	3000	4300	NU 1030
	225	45	-	346	545	60	2500	-	NU 2030
	225	56	-	411	707	78	2600	-	NU 3030
	270	45	-	505	593	63	2300	2400	NU 230
	270	73	-	734	916	98	2300	2400	NU 2230
	300	102	-	875	1230	130	1800	-	314834
	320	65	-	897	961	100	2000	3500	NU 330
	320	108	-	1364	1610	168	2000	3400	NU 2330
	380	85	-	974	1160	114	1700	-	NU 430
160	240	38	-	228	323	35,3	2700	4300	NU 1032
	240	48	-	413	663	71	2400	-	NU 2032
	240	60	-	441	780	86,5	2300	-	NU 3032
	290	48	-	582	670	71	2200	2300	NU 232
	290	80	-	921	1180	127	2100	3500	NU 2232
	290	98425	-	1013	1450	152	1900	-	320151
	300	84	-	717	1050	111	1800	-	609099

**N****NUP****NJ****SCRB FIXED****NJGL****NF****NJF****SCRB LOOSE**

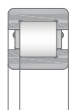
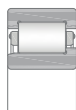
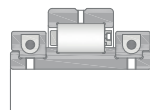
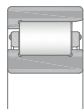
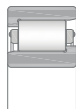
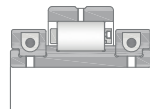
Dimensions					Mass	Designation		
d	r _{1,2min}	r _{3,4min}	r _{amax}	r _{bmax}		Standard design	Alternative design	Angle ring
[mm]					[kg]			
130	4	4	3	3	19	319926	-	-
(cont.)	5	5	4	4	36	NU 426	N, NJ, NUP	-
140	2	1,1	2	1	4	NU 1028	N, NJ, NUP	-
	2	1,1	1	1,1	4,9	NU 2028	N, NJ, NUP	-
	3	3	2,5	2,5	9,4	NU 228	N, NJ, NUP	HJ 228
	3	3	2,5	2,5	13,5	NU 2228	N, NJ, NUP	HJ 2228
	3	3	2,5	2,5	9,25	NUB 322883	-	-
	3	2,5	2,5	2,5	22	614073	-	-
	4	3	3	3	22	NU 328	N, NJ, NUP	HJ 328
	4	4	3	3	37	NU 2328	N, NJ, NUP	HJ 2328
	3	3	2,5	2,5	41,8	467063	-	-
	5	5	4	4	47	NU 428	N, NJ, NUP	-
149,969	4	4	3	3	24,5	313268	-	-
150	2,1	1,5	2	1,5	4,85	NU 1030	N, NJ, NUP	-
	2,1	1,5	1,5	1	6	NU 2030	N, NJ, NUP	-
	1,5	1,1	1	1	7,9	NU 3030	N, NJ, NUP	-
	3	3	2,5	2,5	11,5	NU 230	N, NJ, NUP	HJ 230
	3	3	2,5	2,5	18,5	NU 2230	N, NJ, NUP	HJ 2230
	4	4	3	3	35,5	314834	-	-
	4	4	3	3	28	NU 330	N, NJ, NUP	HJ 330
	4	4	3	3	45	NU 2330	N, NJ, NUP	-
	5	5	4	4	53,5	NU 430	N, NJ, NUP	-
160	2,1	1,5	2	1,5	5,95	NU 1032	N, NJ, NUP	HJ 1032
	2,1	1,5	1,5	1	7,9	NU 2032	N, NJ, NUP	-
	1,5	1	1	1	9,7	NU 3032	N, NJ, NUP	-
	3	3	2,5	2,5	14	NU 232	N, NJ, NUP	HJ 232
	3	3	2,5	2,5	24	NU 2232	N, NJ, NUP	HJ 2232
	3	3	2,5	2,5	31	320151	-	-
	7,5	4	3	3	28	609099	-	-



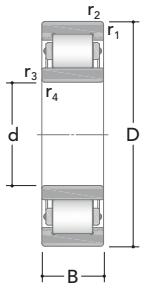
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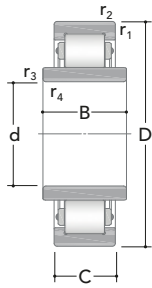
Main dimensions				Basic load ratings		Fatigue load limit	Speed ratings		Designation
d	D	B	C	Dynamic C	Static C ₀	C _u	Reference	Limiting	Standard design
[mm]				[kN]			[rpm]		
160	340	68	-	1007	1070	111	1800	3200	NU 332
(cont.)	340	114	-	1270	1850	185	1600	3200	NU 2332
165,1	279,4	61,912	-	631	892	95,6	2000	-	322832
170	230	28	-	185	287	30	2700	-	NU 1934
	260	42	-	360	395	41	2700	3700	NU 1034
	260	54	-	479	730	80,9	2200	-	NU 2034
	310	52	-	698	807	84	2000	3300	NU 234
	310	86	-	1061	1400	146	2000	3300	NU 2234
	360	72	-	950	1170	115	1600	1900	NU 334
	360	120	-	1570	2190	219	1500	3000	NU 2334
180	250	33	-	243	395	41	3600	-	NU 1936
	250	42	-	255	440	46,5	2500	-	NU 2936
	280	46	-	338	473	51	2400	3500	NU 1036
	280	60	-	625	966	103	2100	-	NU 2036
	280	74	-	699	1180	125	2000	-	NU 3036
	320	52	-	714	847	88	2000	3200	NU 236
	320	75	-	772	1080	110	1800	-	319641
	320	86	-	1097	1480	151	2000	3100	NU 2236
	340	100	-	1010	1470	150	1800	-	314525
	380	75	-	1031	1270	123	1500	1900	NU 336
	380	126	-	1587	2260	218	1400	2800	NU 2336
	440	95	-	1268	1580	148	1500	-	NU 436
190	260	33	-	246	400	40,5	2400	-	NU 1938
	260	42	-	260	449	46,9	2400	-	NU 2938
	290	46	-	342	497	53	2400	3300	NU 1038
	290	60	-	651	1030	107	2000	-	NU 2038
	290	75	-	730	1230	130	2000	-	NU 3038
	340	55	-	802	962	98	1900	3000	NU 238

**N****NUP****NJ****SCRB FIXED****NJGL****NF****NJF****SCRB LOOSE**

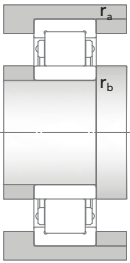
Dimensions					Mass	Designation		
d	r _{1,2min}	r _{3,4min}	r _{amax}	r _{bmax}		Standard design	Alternative design	Angle ring
[mm]					[kg]			
160	4	4	3	3	32,5	NU 332	N, NJ, NUP	HJ 332
(cont.)	4	4	3	3	53	NU 2332	N, NJ, NUP	-
165,1	4	4	3	3	23	322832	-	-
170	2	1,1	1	1	3,55	NU 1934	N, NJ, NUP	-
	2,1	2,1	2	2	8	NU 1034	N, NJ, NUP	HJ 1034
	2,1	2,1	2	2	11	NU 2034	N, NJ, NUP	HJ 234
	4	4	3	3	19	NU 234	N, NJ, NUP	HJ 2234
	4	4	3	3	30	NU 2234	N, NJ, NUP	-
	4	3	3	3	37,5	NU 334	N, NJ, NUP	-
	4	4	3	3	63	NU 2334	N, NJ, NUP	-
180	2	1	2	1	5,05	NU 1936	N, NJ, NUP	-
	2	2	2	2	6,7	NU 2936	N, NJ, NUP	-
	2,1	2,1	2	2	10,5	NU 1036	N, NJ, NUP	HJ 1036
	2,1	2,1	2	2	14	NU 2036	N, NJ, NUP	-
	2,1	1	1	1	17	NU 3036	N, NJ, NUP	-
	4	4	3	3	19,5	NU 236	N, NJ, NUP	HJ 236
	7,5	4	3	3	27,5	319641	-	-
	4	4	3	3	31,5	NU 2236	N, NJ, NUP	-
	4	4	3	3	43,5	314525	-	HJ 2236
	4	3	3	3	44,5	NU 336	N, NJ, NUP	-
	4	4	3	3	72,5	NU 2336	N, NJ, NUP	-
	6	6	5	5	79	NU 436	N, NJ, NUP	-
190	2	1,1	2	1	5,5	NU 1938	N, NJ, NUP	-
	2	2	2	2	7	NU 2938	N, NJ, NUP	-
	2,1	2,1	2	2	11	NU 1038	N, NJ, NUP	HJ 1038
	2,1	2,1	2	2	15	NU 2038	N, NJ, NUP	-
	2,1	1,7	2	1,5	18	NU 3038	N, NJ, NUP	-
	4	4	3	3	23,5	NU 238	N, NJ, NUP	HJ 238



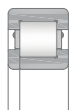
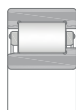
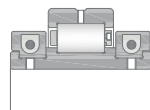
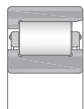
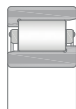
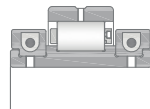
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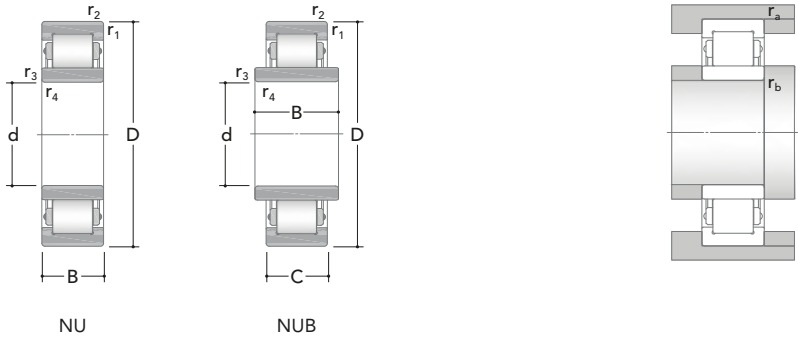
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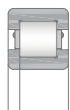
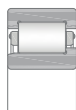
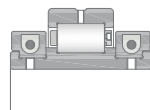
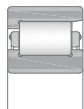
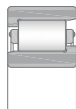
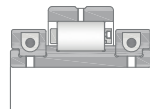
Main dimensions				Basic load ratings		Fatigue load limit	Speed ratings		Designation
d	D	B	C	Dynamic C	Static C ₀	C _u	Reference	Limiting	Standard design
[mm]				[kN]			[rpm]		
190 (cont.)	340	92	-	1232	1640	164	1800	2900	NU 2238
	400	78	-	1141	1470	140	1400	1700	NU 338
	400	132	-	1851	2564	237	1400	2700	NU 2338
200	250	30	-	185	341	33,1	2500	-	NU 2840
	280	38	-	266	397	40,7	2600	-	NU 1940
	280	48	-	325	576	59	2400	-	NU 2940
	310	51	-	376	559	57,4	2100	3100	NU 1040
	310	66	-	744	1200	123	1800	-	NU 2040
	310	82	-	780	1390	145	1800	-	NU 3040
	340	112	-	1201	1880	191	1500	-	NU 3140
	360	58	-	879	1040	104	1700	2800	NU 240
	360	98	-	1351	1880	188	1800	2800	NU 2240
	360	128	-	1556	2440	244	1400	-	NU 3240
	360	143	98	1237	1870	187	1700	-	NUB 326518
	420	80	-	1224	1643	151	1250	2400	NU 340
	420	138	-	1970	2790	254	1300	2500	NU 2340
210	380	61	-	846	1160	114	1600	-	463553
220	300	38	-	338	551	54	2200	-	NU 1944
	300	38	-	279	465	45,5	2200	-	246312
220	300	48	-	455	830	83	2200	-	NU 2944
	340	56	-	492	726	72,6	2000	2800	NU 1044
	340	72	-	878	1450	145	1700	-	NU 2044
	340	90	-	924	1690	169	1600	-	NU 3044
	350	83	-	839	1350	138	1500	-	314591
	370	120	-	1305	2110	207	1400	-	NU 3144
	400	65	-	1059	1275	124	1500	2700	NU 244
	400	108	-	1576	2270	211	1400	2600	NU 2244
	460	88	-	1195	1610	148	1400	1500	NU 344
	460	145	-	2407	3410	306	1200	1900	NU 2344

**N****NUP****NJ****SCRB FIXED****NJGL****NF****NJF****SCRB LOOSE**

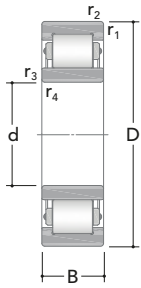
Dimensions					Mass	Designation		
d	r _{1,2min}	r _{3,4min}	r _{amax}	r _{bmax}		Standard design	Alternative design	Angle ring
[mm]					[kg]			
190 (cont.)	4	4	3	3	39	NU 2238	N, NJ, NUP	-
	5	5	4	4	50	NU 338	N, NJ, NUP	HJ 338
	5	5	4	4	82,5	NU 2338	N, NJ, NUP	-
200	1,5	1,5	1,5	1,5	3,55	NU 2840	N, NJ, NUP	-
	2,1	2,1	2	2	7,4	NU 1940	N, NJ, NUP	-
	2,1	2,1	2	2	9,5	NU 2940	N, NJ, NUP	-
	2,1	2,1	2	2	14	NU 1040	N, NJ, NUP	HJ 1040
	2,1	2,1	2	2	19	NU 2040	N, NJ, NUP	-
	2,1	1	2	1	23,5	NU 3040	N, NJ, NUP	-
	3	2	2,5	2	41	NU 3140	N, NJ, NUP	-
	4	4	3	3	28,5	NU 240	N, NJ, NUP	HJ 240
	4	4	3	3	46	NU 2240	N, NJ, NUP	-
	4	4	3	3	59	NU 3240	N, NJ, NUP	-
	4	4	3	3	50	NUB 326518	-	-
	5	5	4	4	56	NU 340	N, NJ, NUP	-
	5	5	4	4	96	NU 2340	N, NJ, NUP	-
210	5	5	4	4	32	463553	-	-
220	2,1	1,5	2	1,5	8,3	NU 1944	N, NJ, NUP	-
	4	2,1	3	2	8	246312	-	-
220	2,1	1,5	2	1,5	10	NU 2944	N, NJ, NUP	-
	3	3	2,5	2,5	18,5	NU 1044	N, NJ, NUP	HJ 1044
	3	3	2,5	2,5	25	NU 2044	N, NJ, NUP	-
	3	1,1	2,5	1	31	NU 3044	N, NJ, NUP	-
	3	3	2,5	2,5	31,5	314591	-	-
	4	1,5	3	1,5	51,5	NU 3144	N, NJ, NUP	-
	4	4	3	3	38,5	NU 244	N, NJ, NUP	-
	4	4	3	3	62,5	NU 2244	N, NJ, NUP	HJ 244
	5	5	4	4	72,5	NU 344	N, NJ, NUP	-
	5	5	4	4	124	NU 2344	N, NJ, NUP	-



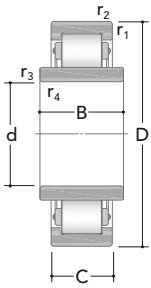
Main dimensions				Basic load ratings		Fatigue load limit	Speed ratings		Designation
d	D	B	C	Dynamic C	Static C ₀	C _u	Reference	Limiting	Standard design
[mm]				[kN]			[rpm]		
220,586	320	45	-	389	623	60	2000	-	411468
220,91	320	45	-	398	623	60	2000	-	413585
229,954	370	100	-	1175	2090	205	1400	-	475618
230	400	120	-	1684	2570	242	1500	-	322380
240	320	48	-	351	663	66	2000	-	NU 2948
	360	56	-	527	789	77	1800	2600	NU 1048
	360	72	-	900	1550	152	1500	-	NU 2048
	360	92	-	1008	1850	182	1500	-	NU 3048
	400	128	-	1452	2432	238	1300	-	NU 3148
	440	72	-	956	1350	127	1500	2000	NU 248
	440	120	-	1433	2330	221	1400	1900	NU 2248
	440	120	-	1587	2490	235	1400	-	313221
	500	95	-	1440	1990	179	1200	1400	NU 348
	500	155	-	2571	3610	316	1100	1800	NU 2348
250	380	83	-	908	1470	143	1500	-	314592
260	320	36	-	285	582	55	1800	-	NU 2852
	340	35	-	349	607	57	1800	-	312235
	340	38	-	344	618	58,3	1800	-	246313
	360	46	-	472	802	79	1700	-	NU 1952
	400	65	-	631	953	95,3	1600	2500	NU 1052
260	400	82	-	1195	2060	198	1400	-	NU 2052
	400	104	-	1340	2332	225	1400	-	NU 3052
	440	144	-	2080	3410	306	1200	-	NU 3152
	480	80	-	1159	1670	147	1300	1800	NU 252
	480	130	-	1766	2960	261	1200	1800	NU 2252
	540	102	-	1930	2680	234	1000	1600	NU 352

**N****NUP****NJ****SCRB FIXED****NJGL****NF****NJF****SCRB LOOSE**

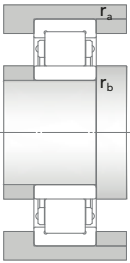
Dimensions					Mass	Designation		
d	r _{1,2min}	r _{3,4min}	r _{amax}	r _{bmax}		Standard design	Alternative design	Angle ring
[mm]					[kg]			
220,586	3	3	2,5	2,5	12,3	411468	-	-
220,91	3	3	2,5	2,5	12,2	413585	-	-
229,954	3	3	2,5	2,5	44,5	475618	-	-
230	3	3	2,5	2,5	74	322380	-	-
240	2,1	2,1	2	2	11,5	NU 2948	N, NJ, NUP	-
	3	3	2,5	2,5	20	NU 1048	N, NJ, NUP	HJ 1048
	3	3	2,5	2,5	26,5	NU 2048	N, NJ, NUP	-
	3	3	2,5	2,5	34	NU 3048	N, NJ, NUP	-
	3	1,1	2,5	1	64	NU 3148	N, NJ, NUP	-
	4	4	3	3	51,5	NU 248	N, NJ, NUP	-
	4	4	3	3	84	NU 2248	N, NJ, NUP	-
	4	4	3	3	84	313221	-	-
	5	5	4	4	94,5	NU 348	N, NJ, NUP	HJ 348
	5	5	4	4	155	NU 2348	N, NJ, NUP	-
250	3	3	2,5	2,5	35,5	314592	-	-
260	2	2	2	2	6,3	NU 2852	N, NJ, NUP	-
	2	2	2	2	8,7	312235	-	-
	4	2	3	2	9,3	246313	-	-
	2,1	1,5	2	1,5	14,5	NU 1952	N, NJ, NUP	-
	4	4	3	3	29,5	NU 1052	N, NJ, NUP	HJ 1052
260	4	4	3	3	39	NU 2052	N, NJ, NUP	-
	4	4	3	3	48	NU 3052	N, NJ, NUP	-
	4	4	3	3	98	NU 3152	N, NJ, NUP	-
	5	5	4	4	68,5	NU 252	N, NJ, NUP	HJ 252
	5	5	4	4	110	NU 2252	N, NJ, NUP	-
	6	6	5	5	125	NU 352	N, NJ, NUP	-



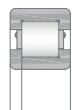
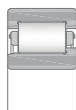
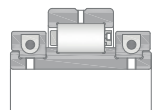
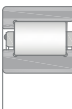
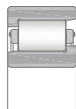
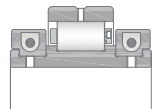
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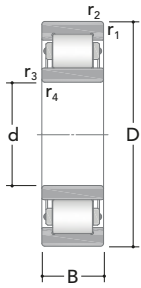
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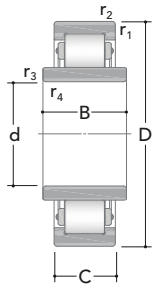
Main dimensions				Basic load ratings		Fatigue load limit	Speed ratings		Designation
d	D	B	C	Dynamic C	Static C ₀	C _u	Reference	Limiting	Standard design
[mm]				[kN]			[rpm]		
260	540	165	-	3182	4410	372	1000	-	NU 2352
(cont.)									
280	350	42	-	362	742	67	1800	-	NU 2856
	360	38	-	378	697	64,3	1700	-	246314
	380	46	-	524	873	82	1700	-	NU 1956
	380	60	-	759	1380	132	1600	-	NU 2956
	420	65	-	668	1050	101	1600	2300	NU 1056
	420	82	-	1237	2130	201	1300	-	NU 2056
	420	82	65	652	1040	100	1500	-	NUB 312961
	460	146	-	2271	3890	334	1100	-	NU 3156
	500	80	-	1296	1923	167	1300	1650	NU 256
	500	130	-	2199	3400	301	1100	1650	NU 2256
	500	165,1	-	2924	4930	424	1000	-	322312
	580	175	-	2723	4220	358	1000	1500	NU 2356
284,9	474,9	152,4	-	2256	4370	412	1100	-	475620
287,6	440	72	-	1066	1700	157	1200	-	463551
300	380	38	-	353	674	60	1600	-	NU 1860
	380	48	-	467	966	87	1600	-	NU 2860
	420	56	-	701	1130	109	1400	-	NU 1960
	420	72	-	997	1880	178	1400	-	NU 2960
	460	74	-	859	1377	130	1400	1700	NU 1060
300	460	95	-	1513	2730	253	1200	-	NU 2060
	460	118	-	1635	3010	281	1200	-	NU 3060
	540	85	-	1435	2100	181	1200	1600	NU 260
	540	140	-	2087	3410	297	1100	1600	NU 2260
	620	185	-	4028	5800	476	900	1400	NU 2360
320	415	43	-	472	848	78	1500	-	246315
	440	72	-	763	1490	139	1400	-	314756

**N****NUP****NJ****SCRB FIXED****NJGL****NF****NJF****SCRB LOOSE**

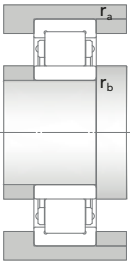
Dimensions					Mass	Designation		
d	r _{1,2min}	r _{3,4min}	r _{amax}	r _{bmax}		Standard design	Alternative design	Angle ring
[mm]					[kg]			
260	6	6	5	5	190	NU 2352	N, NJ, NUP	-
(cont.)								
280	2	1,1	2	1	9,6	NU 2856	N, NJ, NUP	-
	4	2	3	2	9,6	246314	-	-
	2,1	2,1	2	2	15,5	NU 1956	N, NJ, NUP	-
	2,1	2,1	2	2	20,5	NU 2956	N, NJ, NUP	-
	4	4	3	3	31,5	NU 1056	N, NJ, NUP	HJ 1056
	4	4	3	3	40	NU 2056	N, NJ, NUP	-
	4	4	3	3	34	NUB 312961	-	-
	5	5	4	4	105	NU 3156	N, NJ, NUP	-
	5	5	4	4	71,5	NU 256	N, NJ, NUP	-
	5	5	4	4	115	NU 2256	N, NJ, NUP	HJ 2256
	4	4	3	3	160	322312	-	-
	6	6	5	5	232	NU 2356	N, NJ, NUP	-
284,9	4	4	3	3	120	475620	-	-
287,6	6,4	6,4	6	6	42	463551	-	-
300	2,1	1,5	2	1,5	10,5	NU 1860	N, NJ, NUP	-
	2,1	1,5	2	1,5	13,5	NU 2860	N, NJ, NUP	-
	3	3	2,5	2,5	24,5	NU 1960	N, NJ, NUP	-
	3	3	2,5	2,5	33	NU 2960	N, NJ, NUP	-
	4	4	3	3	46,5	NU 1060	N, NJ, NUP	HJ 1060
300	4	4	3	3	59,5	NU 2060	N, NJ, NUP	-
	4	1,5	4	1,5	72	NU 3060	N, NJ, NUP	-
	5	5	4	4	88	NU 260	N, NJ, NUP	-
	5	5	4	4	145	NU 2260	N, NJ, NUP	-
	7,5	7,5	6	6	270	NU 2360	N, NJ, NUP	-
320	4	2,1	3	2	16,2	246315	-	-
	3	3	2,5	2,5	34,5	314756	-	-



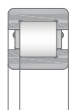
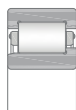
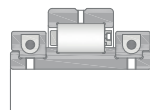
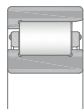
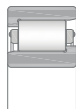
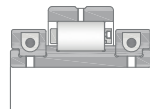
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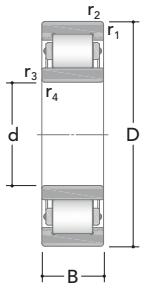
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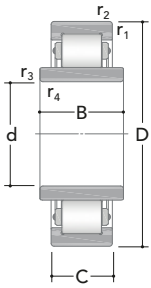
Main dimensions				Basic load ratings		Fatigue load limit	Speed ratings		Designation
d	D	B	C	Dynamic C	Static C ₀	C _u	Reference	Limiting	Standard design
[mm]				[kN]			[rpm]		
320	480	74	-	892	1410	130	1300	1700	NU 1064
(cont.)	480	95	-	1463	2610	241	1100	1700	NU 2064
	480	121	-	1857	3150	280	1100	1200	NU 3064
	540	176	-	3162	5340	445	900	1500	NU 3164
	580	92	-	1606	2410	201	1100	1400	NU 264
	580	150	-	3157	4990	414	1000	1400	NU 2264
	620	165	-	3439	5270	438	900	-	319915
330,15	558,8	141,29	-	2622	4440	375	1000	-	475622
340	420	35	-	213	395	33,1	1400	-	316197
	420	48	-	513	1100	96	1330	-	NU 2868
	460	56	-	692	1180	106	1300	1700	NU 1968
	460	72	-	1023	2010	183	1300	1700	NU 2968
	460,08	56	-	631	1100	100	1300	-	313816
	520	82	-	1089	1740	154	1200	1500	NU 1068
	520	133	-	2205	4080	359	1000	1500	NU 3068
	580	190	-	3477	5829	488	900	1400	NU 3168
	620	165	-	2649	4490	364	1000	1300	NU 2268
350	480	85	-	1054	2130	193	1100	-	612129
360	450	50	-	519	1010	90,6	1300	-	246316
	540	82	-	1116	1810	161	1200	1400	NU 1072
	540	106	-	1924	3590	309	1000	1400	NU 2072
	600	192	-	3439	6153	494	800	1300	NU 3172
	650	95	-	1965	3000	246	900	-	NU 272
	650	170	-	2952	4860	397	900	1200	NU 2272
360	750	224	-	4961	8050	622	700	-	NU 2372
380	480	40	-	270	517	37,3	1200	-	316010
	480	46	-	563	1105	97	1200	1800	NU 1876

**N****NUP****NJ****SCRB FIXED****NJGL****NF****NJF****SCRB LOOSE**

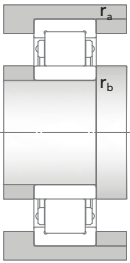
Dimensions					Mass	Designation		
d	r _{1,2min}	r _{3,4min}	r _{amax}	r _{bmax}		Standard design	Alternative design	Angle ring
[mm]					[kg]			
320	4	4	3	3	48,5	NU 1064	N, NJ, NUP	HJ 1064
(cont.)	4	4	3	3	62,5	NU 2064	N, NJ, NUP	-
	4	4	3	3	75	NU 3064	N, NJ, NUP	-
	5	5	4	4	175	NU 3164	N, NJ, NUP	-
	5	5	4	4	115	NU 264	N, NJ, NUP	-
	5	5	4	4	180	NU 2264	N, NJ, NUP	-
	6	6	5	5	235	319915	-	-
330,15					155	475622	-	-
340	2,1	2,1	2	2	9,6	316197	-	-
	2,1	2,1	2	2	15	NU 2868	N, NJ, NUP	-
	3	3	2,5	2,5	27,5	NU 1968	N, NJ, NUP	-
	3	3	2,5	2,5	37	NU 2968	N, NJ, NUP	-
	3	3	2,5	2,5	27,5	313816	-	-
	5	5	4	4	65	NU 1068	N, NJ, NUP	HJ 1068
	5	5	4	4	106	NU 3068	N, NJ, NUP	-
	5	5	4	4	210	NU 3168	N, NJ, NUP	-
	6	6	5	5	220	NU 2268	N, NJ, NUP	-
350	4	4	3	3	48	612129	-	-
360	4	4	3	3	18,7	246316	-	-
	5	5	4	4	67,5	NU 1072	N, NJ, NUP	HJ 1072
	5	5	4	4	88,5	NU 2072	N, NJ, NUP	-
	5	5	4	4	225	NU 3172	N, NJ, NUP	-
	6	6	5	5	150	NU 272	N, NJ, NUP	-
	6	6	5	5	250	NU 2272	N, NJ, NUP	-
360	7,5	7,5	6	6	510	NU 2372	N, NJ, NUP	-
380	2,1	2,1	2	2	15,5	316010	-	-
	2,1	2,1	2	2	23	NU 1876	N, NJ, NUP	-



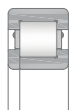
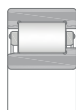
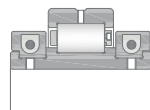
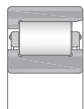
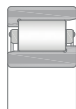
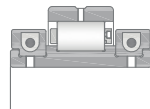
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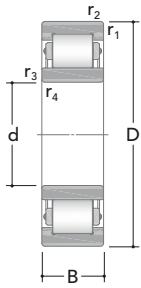
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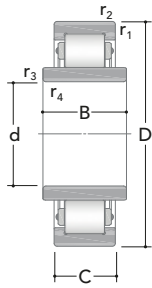
Main dimensions				Basic load ratings		Fatigue load limit	Speed ratings		Designation
d	D	B	C	Dynamic C	Static C ₀	C _u	Reference	Limiting	Standard design
[mm]				[kN]			[rpm]		
380 (cont.)	560	82	-	1152	1910	168	1100	1400	NU 1076
	560	106	-	1910	3700	309	900	1400	NU 2076
	560	135	-	2414	4710	397	900	1600	NU 3076
	680	175	-	4007	6360	507	800	1100	NU 2276
400	500	46	-	571	1170	99	1200	1700	NU 1880
	540	65	-	944	1700	150	1100	1400	NU 1980
	540	82	-	1401	2830	248	1100	1400	NU 2980
	600	90	-	1387	2300	194	1000	1300	NU 1080
	600	118	-	2447	4660	373	900	-	NU 2080
	600	148	-	2816	5450	437	900	1200	NU 3080
406,4	546,1	69,85	-	1118	2000	176	1100	-	322821
	603,25	82,55	-	1489	2512	205	800	-	322815
410	790	215	-	6131	9680	741	700	-	319896
	790	280	-	5575	9040	687	630	-	316931
420	520	40	-	295	608	47,3	1100	-	315932
	520	46	-	555	1100	89,9	1100	1400	NU 1884
	520	75	-	940	2220	191	1000	1400	NU 3884
	560	65	-	975	1789	155	1000	1300	NU 1984
	560	82	-	1421	2871	257	1000	1300	NU 2984
	620	90	-	1425	2473	202	1000	1200	NU 1084
	620	118	-	2360	4700	376	800	1200	NU 2084
	620	150	-	2921	5430	432	800	1200	NU 3084
	700	224	-	4981	8990	694	700	1100	NU 3184
430	530	40	-	294	601	45,8	1100	-	315834
440	540	40	-	292	600	40,8	1000	-	316011
	540	60	-	807	1899	153	1000	1300	NU 2888
	600	74	-	1058	1980	168	1000	1200	NU 1988

**N****NUP****NJ****SCRB FIXED****NJGL****NF****NJF****SCRB LOOSE**

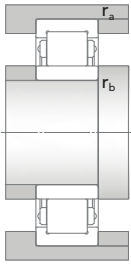
Dimensions					Mass	Designation		
d	r _{1,2min}	r _{3,4min}	r _{amax}	r _{bmax}		Standard design	Alternative design	Angle ring
[mm]					[kg]			
380 (cont.)	5	5	4	4	70	NU 1076	N, NJ, NUP	HJ 1076
	5	5	4	4	92,5	NU 2076	N, NJ, NUP	-
	5	5	4	4	115	NU 3076	N, NJ, NUP	-
	6	6	5	5	275	NU 2276	N, NJ, NUP	-
400	2,1	2,1	2	2	21	NU 1880	N, NJ, NUP	-
	4	4	3	3	41	NU 1980	N, NJ, NUP	-
	4	4	3	3	57	NU 2980	N, NJ, NUP	-
	5	5	4	4	91	NU 1080	N, NJ, NUP	HJ 1080
	5	5	4	4	120	NU 2080	N, NJ, NUP	-
	5	3	4	2,5	175	NU 3080	N, NJ, NUP	-
406,4	5	5	4	4	46,5	322821	-	-
	5	5	4	4	84	322815	-	-
410	7,5	7,5	6	6	500	319896	-	-
	7,5	7,5	6	6	610	316931	-	-
420	2,1	2,1	2	2	17,5	315932	-	-
	2,1	1,5	2	1,5	20	NU 1884	N, NJ, NUP	-
	2,1	1,5	2	1,5	33	NU 3884	N, NJ, NUP	-
	4	4	3	3	48	NU 1984	N, NJ, NUP	-
	4	4	3	3	59	NU 2984	N, NJ, NUP	-
	5	5	4	4	94	NU 1084	N, NJ, NUP	HJ 1084
	5	5	4	4	125	NU 2084	N, NJ, NUP	-
	5	3	4	3	160	NU 3084	N, NJ, NUP	-
	6	6	5	5	380	NU 3184	N, NJ, NUP	-
430	2,1	2,1	2	2	18,5	315834	-	-
440	2,1	2,1	2	2	18,5	316011	-	-
	2,1	2,1	2	2	34	NU 2888	N, NJ, NUP	-
	4	4	3	3	64	NU 1988	N, NJ, NUP	-



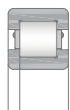
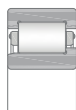
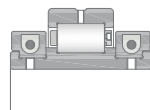
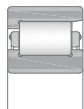
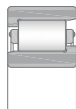
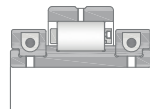
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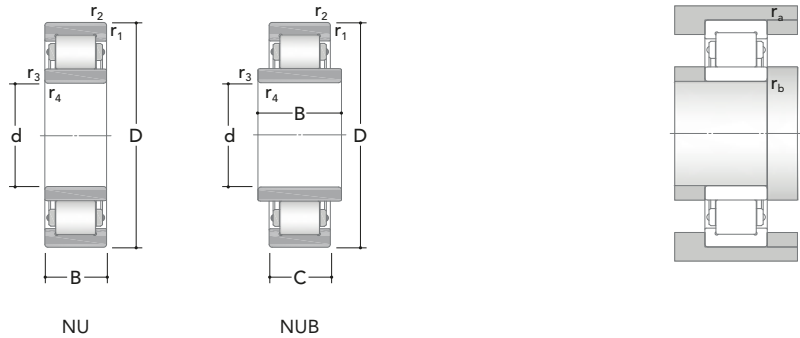
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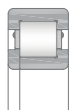
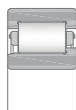
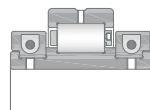
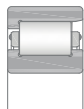
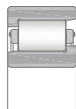
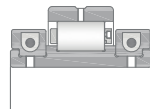
Main dimensions				Basic load ratings		Fatigue load limit	Speed ratings		Designation
d	D	B	C	Dynamic C	Static C ₀	C _u	Reference	Limiting	Standard design
[mm]				[kN]			[rpm]		
440	600	95	-	1883	3882	338	1000	1400	NU 2988
(cont.)	650	94	-	1493	2630	210	1000	1100	NU 1088
	650	122	-	2581	4860	387	7900	1100	NU 2088
	650	157	-	2608	5360	422	800	-	NU 3088
440	720	226	-	5190	10057	769	620	1100	NU 3188
460	580	56	-	817	1690	139	1000	-	NU 1892
	580	72	-	1087	2374	191	1000	1200	NU 2892
	680	100	-	1653	2810	221	900	1100	NU 1092
	680	128	-	2843	5479	421	700	1100	NU 2092
	680	163	-	3432	6771	526	700	1120	NU 3092
	760	240	-	5210	9610	732	600	1000	NU 3192
460	830	165	-	4119	6750	506	700	1000	NU 1292
	830	212	-	5081	8500	644	700	1000	NU 2292
469,9	596,9	57,15	-	786	1600	120	900	-	635010
	698,5	139,7	-	2999	5590	429	700	-	326097
470	920	246	-	8203	13190	949	500	-	320362
480	600	56	-	764	1610	126	900	1100	NU 1896
	600	72	-	1103	2420	198	900	1100	NU 2896
	650	78	-	1156	2220	181	900	1100	NU 1996
	650	78	-	1332	2530	210	900	-	319164
	700	100	-	1661	2960	229	900	1100	NU 1096
	700	128	-	2852	5510	423	700	1100	NU 2096
	790	248	-	5975	10780	799	600	1000	NU 3196
500	620	45	-	402	827	45,3	900	900	316198
	620	56	-	798	1720	137	900	840	NU 18/500
	670	78	-	1224	2395	196	800	-	NU 19/500

**N****NUP****NJ****SCRB FIXED****NJGL****NF****NJF****SCRB LOOSE**

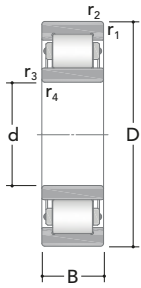
Dimensions					Mass	Designation		
d	r _{1,2min}	r _{3,4min}	r _{amax}	r _{bmax}		Standard design	Alternative design	Angle ring
[mm]					[kg]			
440	4	4	3	3	84	NU 2988	N, NJ, NUP	-
(cont.)	6	6	5	5	105	NU 1088	N, NJ, NUP	HJ 1088
	6	6	5	5	145	NU 2088	N, NJ, NUP	-
	6	4	5	4	180	NU 3088	N, NJ, NUP	-
440	6	6	5	5	395	NU 3188	N, NJ, NUP	-
460	3	3	2,5	2,5	37	NU 1892	N, NJ, NUP	-
	3	3	2,5	2,5	48	NU 2892	N, NJ, NUP	-
	6	6	5	5	125	NU 1092	N, NJ, NUP	HJ 1092
	6	6	5	5	165	NU 2092	N, NJ, NUP	-
	6	6	5	5	210	NU 3092	N, NJ, NUP	-
	7,5	7,5	6	6	455	NU 3192	N, NJ, NUP	-
460	7,5	7,5	6	6	415	NU 1292	N, NJ, NUP	-
	7,5	7,5	6	6	530	NU 2292	N, NJ, NUP	-
469,9	3	3	2,5	2,5	40,5	635010	-	-
	6	6	5	5	200	326097	-	-
470	9,5	9,5	8	8	750	320362	-	-
480	3	3	2,5	2,5	39	NU 1896	N, NJ, NUP	-
	3	3	2,5	2,5	47,5	NU 2896	N, NJ, NUP	-
	5	5	4	4	75,5	NU 1996	N, NJ, NUP	-
	5	5	4	4	78	319164	-	-
	6	6	5	5	130	NU 1096	N, NJ, NUP	HJ 1096
	6	6	5	5	170	NU 2096	N, NJ, NUP	-
	7,5	7,5	6	6	500	NU 3196	N, NJ, NUP	-
500	2,1	2,1	2	2	29	316198	-	-
	3	3	2,5	2,5	39	NU 18/500	N, NJ, NUP	-
	5	5	4	4	79	NU 19/500	N, NJ, NUP	-



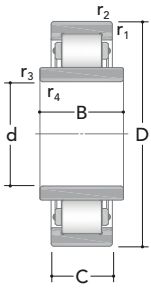
Main dimensions				Basic load ratings		Fatigue load limit	Speed ratings		Designation
d	D	B	C	Dynamic C	Static C ₀	C _u	Reference	Limiting	Standard design
[mm]				[kN]			[rpm]		
500 (cont.)	670	128	-	2304	5130	434	700	1100	NU 39/500
	720	100	-	1729	3040	231	800	1000	NU 10/500
	720	128	-	2930	5840	439	700	1000	NU 20/500
	720	167	-	3870	7950	606	700	1000	NU 30/500
	830	264	-	6490	11850	869	550	900	NU 31/500
	920	185	-	5249	8360	610	600	850	NU 12/500
530	650	45	-	415	890	61	2000	3000	315835
	650	72	-	1163	2720	214	800	1100	NU 28/530
	710	106	-	2354	4950	411	800	-	NU 29/530
	780	112	-	2310	4030	303	800	900	NU 10/530
	780	145	-	3791	7340	549	600	900	NU 20/530
	780	185	-	4123	8620	638	600	-	NU 30/530
	870	272	-	7453	14690	1046	500	840	NU 31/530
560	680	45	-	435	940	61	1800	2700	316053
	680	56	-	807	2062	152	800	1000	NU 18/560
	750	85	-	1645	3405	250	700	900	NU 19/560
	820	115	-	2359	4210	307	700	900	NU 10/560
	820	150	-	3752	7560	553	600	900	NU 20/560
	1030	206	-	7140	11000	766	500	700	NU 12/560
571,5	711,2	120,65	-	2457	6190	474	600	-	474795
600	730	52	-	465	1010	64,9	700	-	315836
	730	60	-	910	2068	107	700	900	NU 18/600
	800	90	-	1914	3790	274	700	830	NU 19/600
	800	118	-	2958	6520	473	700	850	NUP 29/600
	870	118	-	2761	5010	359	700	800	NU 10/600
	870	155	-	4186	7880	561	600	800	NU 20/600
	870	200	-	5419	10780	764	600	800	NU 30/600
	1090	155	-	5531	9790	669	500	650	NU 12/600

**N****NUP****NJ****SCRB FIXED****NJGL****NF****NJF****SCRB LOOSE**

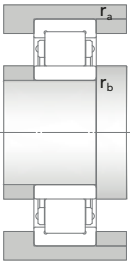
Dimensions					Mass	Designation		
d	r _{1,2min}	r _{3,4min}	r _{amax}	r _{bmax}		Standard design	Alternative design	Angle ring
[mm]					[kg]			
500 (cont.)	5	5	4	4	130	NU 39/500	N, NJ, NUP	-
	6	6	5	5	135	NU 10/500	N, NJ, NUP	HJ 10/500
	6	6	5	5	180	NU 20/500	N, NJ, NUP	-
	6	6	5	5	225	NU 30/500	N, NJ, NUP	-
	7,5	7,5	6	6	595	NU 31/500	N, NJ, NUP	-
	7,5	7,5	6	6	585	NU 12/500	N, NJ, NUP	-
530	3	3	2,5	2,5	30	315835	-	-
	3	3	2,1	2,1	52	NU 28/530	N, NJ, NUP	-
	5	5	4	4	120	NU 29/530	N, NJ, NUP	-
	6	6	5	5	190	NU 10/530	N, NJ, NUP	-
	6	6	5	5	255	NU 20/530	N, NJ, NUP	-
	6	3	5	3	310	NU 30/530	N, NJ, NUP	-
	7,5	4	6	3	680	NU 31/530	N, NJ, NUP	-
560	3	3	2,5	2,5	31,5	316053	-	-
	3	3	2,5	2,5	44,5	NU 18/560	N, NJ, NUP	-
	5	5	4	4	110	NU 19/560	N, NJ, NUP	-
	6	6	5	5	210	NU 10/560	N, NJ, NUP	HJ 10/560
	6	6	5	5	290	NU 20/560	N, NJ, NUP	-
	9,5	9,5	8	8	805	NU 12/560	N, NJ, NUP	-
571,5	5	5	4	4	115	474795	-	-
600	3	3	2,5	2,5	41	315836	-	-
	3	3	2,5	2,5	50,5	NU 18/600	N, NJ, NUP	-
	5	5	4	4	130	NU 19/600	N, NJ, NUP	-
	5	5	4	4	165	NUP 29/600	N, NJ, NUP	-
	6	6	5	5	245	NU 10/600	N, NJ, NUP	HJ 10/600
	6	6	5	5	325	NU 20/600	N, NJ, NUP	-
	6	6	5	5	415	NU 30/600	N, NJ, NUP	-
	9,5	9,5	8	8	710	NU 12/600	N, NJ, NUP	-



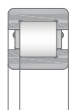
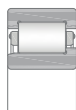
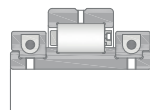
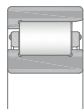
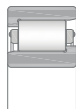
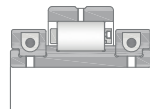
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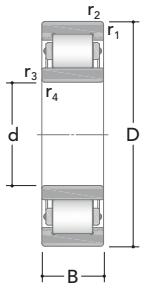
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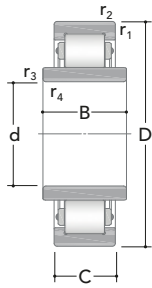
Main dimensions				Basic load ratings		Fatigue load limit	Speed ratings		Designation
d	D	B	C	Dynamic C	Static C ₀	C _u	Reference	Limiting	Standard design
[mm]				[kN]			[rpm]		
630	780	56	-	598	1270	84	1600	2200	315933
	780	88	-	1585	3850	289	700	830	NU 28/630
	780	112	-	2191	5650	446	600	600	NU 38/630
	850	100	-	2228	4350	311	630	800	NU 19/630
	850	128	-	3335	7130	505	700	800	NU 29/630
	920	128	-	3381	6110	424	600	800	NU 10/630
	920	170	-	4731	9420	664	500	800	NU 20/630
	920	212	-	6407	14120	987	500	-	NU 30/630
	1150	230	-	8699	13470	900	400	600	NU 12/630
640	790	56	-	611	1294	83	1600	2000	315837
660,4	863,6	107,95	-	3119	6450	448	500	600	464777
670	820	56	-	615	1360	82	1500	2000	316012
	820	69	-	1236	2750	200	600	-	NU 18/670
	900	103	-	2360	4660	319	600	730	NU 19/670
	980	136	-	3709	6730	460	600	700	NU 10/670
	980	180	-	5438	10780	735	480	700	NU 20/670
	980	230	-	6953	14730	1021	450	-	NU 30/670
673,1	838,2	117,475	-	3000	7160	537	600	-	316912
710	870	74	-	1447	3328	189	600	740	NU 18/710
	870	95	-	1919	4930	360	600	740	NU 28/710
	950	140	-	3767	8200	563	530	700	NU 29/710
	1030	140	-	4747	8400	563	500	700	NU 10/710
	1030	185	-	5852	11840	804	500	600	NU 20/710
720	880	62	-	697	1540	90,3	1300	1625	315799
750	920	78	-	1474	3390	163	540	640	NU 18/750
	1000	112	-	2716	5500	358	500	-	319166

**N****NUP****NJ****SCRB FIXED****NJGL****NF****NJF****SCRB LOOSE**

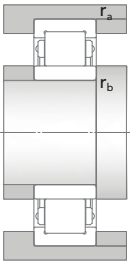
Dimensions					Mass	Designation		
d	r _{1,2min}	r _{3,4min}	r _{amax}	r _{bmax}		Standard design	Alternative design	Angle ring
[mm]					[kg]			
630	4	4	3	3	55	315933	-	-
	4	4	3	3	100	NU 28/630	N, NJ, NUP	-
	4	4	3	3	120	NU 38/630	N, NJ, NUP	-
	6	6	5	5	165	NU 19/630	N, NJ, NU	-
	6	6	5	5	220	NU 29/630	N, NJ, NUP	-
	7,5	7,5	6	6	285	NU 10/630	N, NJ, NUP	-
	7,5	7,5	6	6	400	NU 20/630	N, NJ, NUP	-
	7,5	7,5	6	6	490	NU 30/630	N, NJ, NUP	-
	12	12	10	10	1110	NU 12/630	N, NJ, NUP	-
640	4	4	3	3	56	315837	-	-
660,4	5	5	4	4	177	464777	-	-
670	3	3	2,5	2,5	60	316012	-	-
	4	4	3	3	84,5	NU 18/670	N, NJ, NUP	-
	6	6	5	5	195	NU 19/670	N, NJ, NUP	-
	7,5	7,5	6	6	350	NU 10/670	N, NJ, NUP	-
	7,5	7,5	6	6	480	NU 20/670	N, NJ, NUP	-
	7,5	4	6	3	595	NU 30/670	N, NJ, NUP	-
673,1	5	5	4	4	160	316912	-	-
710	4	4	3	3	97,5	NU 18/710	N, NJ, NUP	-
	4	4	3	3	130	NU 28/710	N, NJ, NUP	-
	6	6	5	5	295	NU 29/710	N, NJ, NUP	-
	7,5	7,5	6	6	415	NU 10/710	N, NJ, NUP	-
	7,5	7,5	6	6	540	NU 20/710	N, NJ, NUP	-
720	4	4	3	3	74,5	315799	-	-
750	5	5	4	4	110	NU 18/750	N, NJ, NUP	-
	6	6	5	5	255	319166	-	-



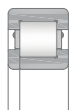
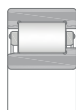
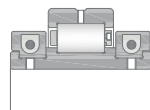
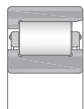
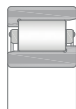
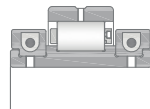
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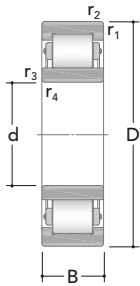
NUB



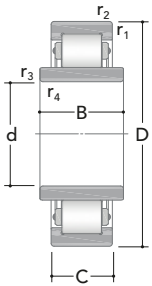
Main dimensions				Basic load ratings		Fatigue load limit	Speed ratings		Designation
d	D	B	C	Dynamic C	Static C ₀	C _u	Reference	Limiting	Standard design
[mm]				[kN]			[rpm]		
750	1090	150	-	4718	8720	580	410	600	NU 10/750
(cont.)	1090	195	-	7060	14428	968	410	600	NU 20/750
800	980	82	-	1719	4090	276	480	600	NU 18/800
	1150	155	-	5456	10490	688	430	550	NU 10/800
	1150	200	-	7023	14400	937	380	600	NU 20/800
820	990	72	-	858	1930	110	1120	1400	315800
850	1030	74	-	934	2080	120	1110	1400	316200
	1030	106	-	2122	5940	238	460	600	NU 28/850
	1120	118	-	3347	7160	459	450	520	NU 19/850
	1120	155	-	4648	10990	707			NU 29/850
900	1090	85	-	1965	4810	236	420	530	NU 18/900
	1090	112	-	2666	7150	472	410	390	NU 28/900
	1180	122	-	4110	8700	554	390	500	NU 19/900
	1180	165	-	5590	13860	887	380	480	NU 29/900
1000	1220	100	-	2614	6490	396	360	470	NU 18/1000
	1220	128	-	3570	9890	609	370	470	NU 28/1000
	1220	128	100	2624	6510	398	350	460	NUB 18/1000
	1320	185	-	6994	17070	1066	-	-	NU 29/1000
1030	1250	100	-	1490	3440	172	290	330	319579
1060	1280	100	-	1493	3390	216	-	-	316789
	1280	128	-	3809	10220	631	280	320	NU 28/1060
	1400	195	-	7236	17260	1058	250	390	NU 29/1060
	1400	250	-	9136	23880	1453	240	290	NU 39/1060
	1500	325	-	13020	32280	1937	-	-	NU 30/1060
1120	1360	104	-	1632	3845	227	200	250	316201

**N****NUP****NJ****SCRB FIXED****NJGL****NF****NJF****SCRB LOOSE**

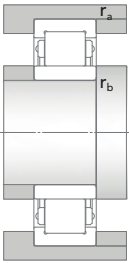
Dimensions					Mass	Designation		
d	r _{1,2min}	r _{3,4min}	r _{amax}	r _{bmax}		Standard design	Alternative design	Angle ring
[mm]					[kg]			
750	7,5	7,5	6	6	490	NU 10/750	N, NJ, NUP	-
(cont.)	7,5	7,5	6	6	635	NU 20/750	N, NJ, NUP	-
800	5	5	4	4	145	NU 18/800	N, NJ, NUP	-
	7,5	7,5	6	6	560	NU 10/800	N, NJ, NUP	-
	7,5	7,5	6	6	715	NU 20/800	N, NJ, NUP	-
820	5	5	4	4	100	315800	-	-
850	5	5	4	4	115	316200	-	-
	5	5	4	4	190	NU 28/850	N, NJ, NUP	-
	6	6	5	5	330	NU 19/850	N, NJ, NUP	-
	6	6	5	5	430	NU 29/850	N, NJ, NUP	-
900	5	5	4	4	170	NU 18/900	N, NJ, NUP	-
	5	5	4	4	235	NU 28/900	N, NJ, NUP	-
	6	6	5	5	380	NU 19/900	N, NJ, NUP	-
	6	6	5	5	560	NU 29/900	N, NJ, NUP	-
1000	6	6	5	5	265	NU 18/1000	N, NJ, NUP	-
	6	6	5	5	350	NU 28/1000	N, NJ, NUP	-
	6	6	5	5	287	NUB 18/1000	N, NJ, NUP	-
	7,5	7,5	6	6	700	NU 29/1000	N, NJ, NUP	-
1030	6	6	5	5	225	319579	-	-
1060	6	6	5	5	230	316789	-	-
	6	6	5	5	360	NU 28/1060	N, NJ, NUP	-
	7,5	7,5	6	6	870	NU 29/1060	N, NJ, NUP	-
	7,5	7,5	6	6	1070	NU 39/1060	N, NJ, NUP	-
	9,5	9,5	8	8	1900	NU 30/1060	N, NJ, NUP	-
1120	6	6	5	5	285	316201	-	-



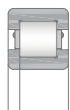
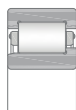
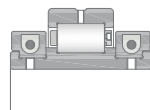
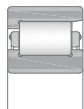
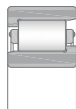
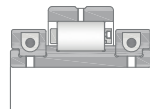
NU



NUB



Main dimensions				Basic load ratings		Fatigue load limit	Speed ratings		Designation
d	D	B	C	Dynamic C	Static C ₀	C _u	Reference	Limiting	Standard design
[mm]				[kN]			[rpm]		
1120	1360	106	-	3397	8620	508	320	380	NU 18/1120
(cont.)	1580	345	-	15683	38490	2290	180	210	NU 30/1120
1180	1420	106	-	3059	7730	451	290	360	NU 18/1180
	1540	206	-	9037	21500	1284	170	330	NU 29/1180
	1540	272	-	11221	28470	1698	180	340	NU 39/1180
1250	1500	106	-	1732	4080	236	200	250	315913
	1750	290	-	12950	30460	1758	150	170	NU 20/1250
1320	1600	122	-	4460	11241	646	240	300	NU 18/1320
				11472	30090	1736	-	-	
	1720	300	-	13100	34719	1972	200	280	NU 39/1320
	1850	400	-	21359	54780	3088	170	210	NU 30/1320
1400	1700	175	-	6694	18250	1037	200	320	NU 28/1400
1500	1820	140	-	3317	7950	437	180	220	319301
1700	2060	160	-	3694	9040	484	150	180	319286
1900	2300	175	-	8693	24620	1270	-	-	NU 18/1900

**N****NUP****NJ****SCRB FIXED****NJGL****NF****NJF****SCRB LOOSE**

Dimensions					Mass	Designation		
d	r _{1,2min}	r _{3,4min}	r _{amax}	r _{bmax}		Standard design	Alternative design	Angle ring
[mm]					[kg]			
1120	6	6	5	5	335	NU 18/1120	N, NJ, NUP	-
(cont.)	9,5	9,5	8	8	2150	NU 30/1120	N, NJ, NUP	-
1180	6	6	5	5	350	NU 18/1180	N, NJ, NUP	-
	7,5	7,5	6	6	1050	NU 29/1180	N, NJ, NUP	-
	7,5	7,5	6	6	1400	NU 39/1180	N, NJ, NUP	-
1250	6	6	5	5	330	315913	-	-
	9,5	9,5	8	8	2320	NU 20/1250	N, NJ, NUP	-
1320	6	6	5	5	530	NU 18/1320	N, NJ, NUP	-
	7,5	7,5	6	6	1900	NU 39/1320	N, NJ, NUP	-
	12	12	10	10	3550	NU 30/1320	N, NJ, NUP	-
1400	7,5	7,5	6	6	860	NU 28/1400	N, NJ, NUP	-
1500	7,5	7,5	6	6	665	319301	-	-
1700	7,5	7,5	6	6	925	319286	-	-
1900	9,5	9,5	8	8	1480	NU 18/1900	N, NJ, NUP	-

Single row full complement cylindrical roller bearings

Radial internal clearance

Single row full complement cylindrical roller bearings are produced as standard with Normal radial internal clearance CN, but they are available with C2, C3, C4 and C5 radial clearance, in accordance with the ISO 5753:2009.

The radial internal clearance values are reported in the previous **Tab. 1 page 127** and **Tab. 2 page 128**, for cylindrical and tapered bore respectively, and they are valid only for bearing unmounted and unloaded.



Single row full complement cylindrical roller bearing

Misalignment

The permissible misalignment between the shaft and the seat of a single row full complement cylindrical roller bearing is restricted to a few minutes of arc:

- 4 minutes of arc for bearings of the narrow dimensional series 18
- 3 minutes of arc for bearings of the wider dimensional series 22, 23, 28, 29 and 30

The above values can be used for the non-

locating bearings, if the shaft and housing axes remain unchanged. Larger values of misalignment may be used, but with negative consequences regarding the bearing life. For additional information, please consult the RKB application engineering service.

Minimum load

A minimum radial load is requested for a single row full complement cylindrical roller bearings to allow an the correct functioning, especially in critical working conditions like: high speed, high acceleration and sudden changes of rotating direction. In these operating conditions, a sliding movement between rollers and raceways can take place by the inertial forces, influencing negatively the bearing life. Minimum radial load can be theoretically estimated using this formula:

$$F_{rm} > \frac{C_{0r}}{50}$$

Where:

- F_{rm} minimum radial load, [kN];
- C_{0r} basic static load rating, [kN] .

Usually, the minimum radial load is reached or surpassed by the weight of the components supported by the bearing together with the loads acting on it, otherwise supplementary radial load must be applied on the single row full complement cylindrical roller bearing. In application where a starting up at a low temperature is planned or a lubricant with high viscosity is used, a larger value of the minimum radial load is required.

Axial load carrying capacities

RKB Single row full complement cylindrical roller bearings can be used in one direction locating position, withstanding axial loads combined with radial force.

In order to support continuous axial loads in one direction the bearing ribs have to be supported across their full height. The maximum axial load has to be in compliance with the following disequations:

$$F_a \leq 0,4 F_r$$

$$F_a \leq \frac{K_1 \cdot K_2 \cdot d_m^{1,5} \cdot n^{-0,6}}{1000}$$

$$F_a \leq \frac{K_2 \cdot d_m^2}{1000}$$

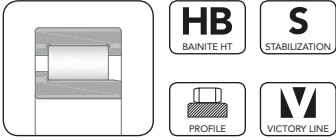
Where:

- F_a maximum axial load, [kN];
- K_1 experimental factor connected with lubrication system, [kN] see following **Tab. 4 page 130**;
- K_2 experimental factor connected with bearing series see following **Tab. 5 page 171**;
- n operating speed [rpm];
- d_m mean bearing diameter [mm];

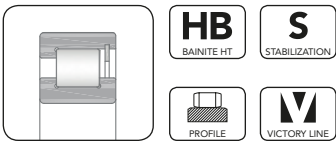
Series	Factor K_2
NCF18	0,33
NCF29	0,75
NCF30	1,23
NCF22	1,43
NJG23	2,18

Tab. 5 - Experimental Factor K_2

For additional information regarding the above limits please consult the RKB application engineering services.

Type NJG (SL19)

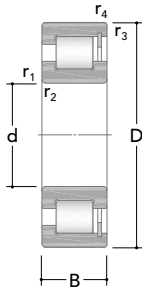
- Outer ring with two integral side ribs
- Inner ring with one integral side rib
- Full complement (cageless) separable design for increased carrying capacities
- Reduced maximum rotational speed compared to caged design
- Optimized raceway geometry and roller profile
- Can be used in one direction locating position

Type NCF (SL18)

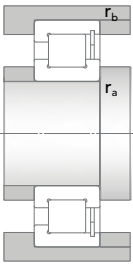
- Outer ring with one integral side rib and retaining ring
- Inner ring with two integral side ribs
- Full complement (cageless) design for increased load carrying capacities
- Reduced maximum rotational speed compared to caged design
- Optimized raceway geometry and roller profile
- Can be used in one direction locating position

Suffixes	Internal Design
E	Optimized internal design with reinforced execution
EC	Optimized internal design for increased load ratings
SP	Special or non-standard bearing
V	Full complement of rolling elements (without cage)
ZB	Optimized roller profile for improved load distribution. It is not necessarily stated in the bearing code

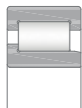
Suffixes	Accuracy, clearance, running
C2	Radial internal clearance less than CN
CN	Standard radial internal clearance
C3	Radial internal clearance greater than Normal (CN)
C4	Radial internal clearance greater than C3
C5	Radial internal clearance greater than C4
C6	Special radial internal clearance
P6	Dimensional and running accuracy as per ISO tolerances Class 6



NCF (SL18)

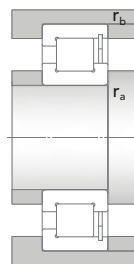
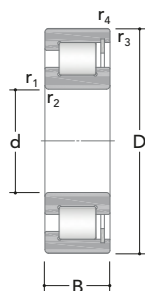


Main dimensions			Basic load ratings		Fatigue load limit	Speed ratings		Designation
d	D	B	Dynamic C	Static C ₀	C _u	Reference	Limiting	Standard design
[mm]			[kN]			[rpm]		
20	42	16	28	28,3	3,1	8200	8700	NCF 3004
	47	18	42	36,2	3,8	6200	8300	NCF 2204
25	47	16	32,4	35,4	3,8	6700	7900	NCF 3005
	52	18	47,6	42,3	4,2	5500	8100	NCF 2205
	62	24	69,1	67,8	8,5	4300	4800	NJG 2305
30	55	19	38,8	43,1	11	5800	6500	NCF 3006
	62	20	68,1	62,8	8,1	4600	6200	NCF 2206
	72	27	83	85,2	5,2	3800	4300	NJG 2306
35	62	20	48,6	55,4	6,48	5100	6000	NCF 3007
	72	23	86	77,1	9,1	4100	5800	NCF 2207
	80	31	106	113	14,2	3200	3800	NJG 2307
40	68	21	57,2	69,4	8,14	4600	5300	NCF 3008
	80	23	95,1	89,2	12,3	3470	4750	NCF 2208
	90	33	145	153	20	2800	3200	NJG 2308
45	75	23	59,8	76,5	8,97	4100	4600	NCF 3009
	85	23	96,8	100	13,2	3480	4500	NCF 2209
	100	36	173	197	25,6	2700	2900	NJG 2309
50	80	23	75,6	97,2	11,7	3800	4400	NCF 3010
	90	23	107	111	13,7	3400	4100	NCF 2210
55	90	26	104	138	17,1	3300	3700	NCF 3011
	100	25	138	147	18,4	2600	3500	NCF 2211
	120	43	231	255	32,9	2100	2400	NJG 2311
60	85	16	54,8	78,6	8,99	3400	4000	NCF 2912
	95	26	106	145	18,2	3200	3500	NCF 3012
	110	28	164	171	21,3	2500	3400	NCF 2212



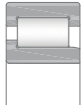
NJG (SL19)

Dimensions					Mass	Designation
d	r _{1,2min}	r _{3,4min}	r _{amax}	r _{bmax}		Standard design
[mm]					[kg]	
20	0,6	0,3	0,6	0,3	0,11	NCF 3004
	1	-	1	-	0,16	NCF 2204
25	0,6	0,3	0,6	0,3	0,12	NCF 3005
	1	-	1	-	0,18	NCF 2205
	1,1	-	1	-	0,38	NJG 2305
30	1	0,3	1	0,3	0,2	NCF 3006
	1	-	1	-	0,3	NCF 2206
	1,1	-	1	-	0,56	NJG 2306
35	1	0,3	1	0,3	0,26	NCF 3007
	1,1	-	1,1	-	0,44	NCF 2207
	1,5	-	1,5	-	0,75	NJG 2307
40	1	0,3	1	0,3	0,31	NCF 3008
	1,1	-	1,1	-	0,55	NCF 2208
	1,5	-	1,5	-	1	NJG 2308
45	1	0,3	1	0,3	0,4	NCF 3009
	1,1	-	1,1	-	0,59	NCF 2209
	1,5	-	1,5	-	1,45	NJG 2309
50	1	0,3	1	0,3	0,43	NCF 3010
	1,1	-	1,1	-	0,64	NCF 2210
55	1,1	0,6	1	0,6	0,64	NCF 3011
	1,5	-	1,5	-	0,87	NCF 2211
	2	-	2	-	2,3	NJG 2311
60	1	0,6	1	0,5	0,29	NCF 2912
	1,1	0,6	1	0,5	0,69	NCF 3012
	1,5	-	1,5	-	1,18	NCF 2212



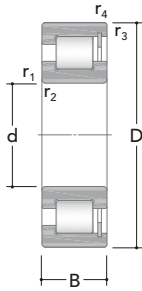
NCF (SL18)

Main dimensions			Basic load ratings		Fatigue load limit C _u	Speed ratings		Designation
d	D	B	Dynamic C	Static C ₀		Reference	Limiting	Standard design
[mm]			[kN]			[rpm]		
65	90	16	59,1	87,3	10,1	3100	3500	NCF 2913
	100	26	111	161	20	2900	3400	NCF 3013
	120	31	194	208	26,6	2370	3100	NCF 2213
	140	48	303	357	46,1	1800	2100	NJG 2313
70	100	19	75,4	116	13,7	2900	3300	NCF 2914
	110	30	126	171	22,1	2600	3100	NCF 3014
	125	31	179	219	27,1	2200	2960	NCF 2214
	150	51	332	393	49	1700	1900	NJG 2314
75	105	19	79,6	124	14,5	2700	3200	NCF 2915
	115	30	135	189	24,4	2500	2800	NCF 3015
	130	31	183	231	29,4	2100	2750	NCF 2215
	160	55	399	478	60	1500	1800	NJG 2315
80	110	19	81,2	130	15,4	2500	3000	NCF 2916
	125	34	165	227	29	2300	2600	NCF 3016
	140	33	217	277	35,2	2000	2840	NCF 2216
	170	58	460	562	70	1400	1700	NJG 2316
85	120	22	103	163	20	2500	2800	NCF 2917
	130	34	174	233	30	2300	2600	NCF 3017
	150	36	249	315	37,3	1970	2500	NCF 2217
	180	60	487	617	76,1	1300	1600	NJG 2317
90	125	22	104	176	20,8	2300	2600	NCF 2918
	140	37	198	278	35,2	2100	2400	NCF 3018
	160	40	281	363	46,8	1900	2300	NCF 2218
	190	64	553	684	83	1300	1500	NJG 2318
95	170	43	324	424	51,2	1800	2100	NCF 2219
100	140	24	129	198	24,3	2100	2200	NCF 2920

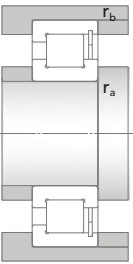


NJG (SL19)

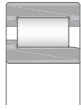
Dimensions					Mass	Designation
d	r _{1,2min}	r _{3,4min}	r _{amax}	r _{bmax}		Standard design
[mm]					[kg]	
65	1	0,6	1	0,5	0,31	NCF 2913
	1,1	0,6	1	0,5	0,73	NCF 3013
	1,5	-	1,5	-	1,57	NCF 2213
	2,1	-	2	-	3,55	NJG 2313
70	1	0,6	1	0,5	0,49	NCF 2914
	1,1	0,6	1	0,5	1	NCF 3014
	1,5	-	1,5	-	1,66	NCF 2214
	2,1	-	2	-	4,4	NJG 2314
75	1	0,6	1	0,5	0,52	NCF 2915
	1,1	1,1	1	1	1,05	NCF 3015
	1,5	-	1,5	-	1,75	NCF 2215
	2,1	-	2	-	5,35	NJG 2315
80	1	0,6	1	0,5	0,55	NCF 2916
	1,1	0,6	1	0,5	1,45	NCF 3016
	2	-	2	-	2,15	NCF 2216
	2,1	-	2	-	6,4	NJG 2316
85	1,1	1	1	1	0,81	NCF 2917
	1,1	0,6	1	0,5	1,5	NCF 3017
	2	-	2	-	2,71	NCF 2217
	3	-	2,5	-	7,4	NJG 2317
90	1,1	1	1	1	0,84	NCF 2918
	1,5	1	1,5	1	1,95	NCF 3018
	2	-	2	-	3,46	NCF 2218
	3	-	2,5	-	8,75	NJG 2318
95	2,1	-	2	-	4,17	NCF 2219
100	1,1	1	1	1	1,15	NCF 2920



NCF (SL18)

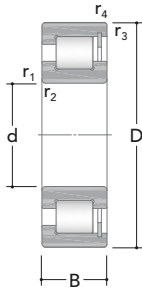


Main dimensions			Basic load ratings		Fatigue load limit	Speed ratings		Designation
d	D	B	Dynamic C	Static C ₀	C _u	Reference	Limiting	Standard design
[mm]			[kN]			[rpm]		
100 (cont.)	150	37	212	307	37,1	1900	2300	NCF 3020
	180	46	384	521	62	1700	1700	NCF 2220
	215	73	694	908	107	1100	1300	NJG 2320
110	150	24	132	219	26	1800	2100	NCF 2922
	170	45	275	394	47	1700	2000	NCF 3022
	200	53	442	595	68,9	1430	1600	NCF 2222
	240	80	852	1050	121	1000	1100	NJG 2322
120	165	27	170	290	34,5	1700	1900	NCF 2924
	180	46	294	436	52	1600	1800	NCF 3024
	215	58	513	729	84	1300	1500	NCF 2224
	260	86	957	1230	138	1000	1100	NJG 2324
130	180	30	207	360	40,5	1500	1800	NCF 2926
	200	52	417	618	72	1400	1630	NCF 3026
	230	64	611	868	97	1300	1400	NCF 2226
	280	93	1075	1410	154	900	1100	NJG 2326
140	190	30	219	390	43	1400	1700	NCF 2928
	210	53	445	679	78	1300	1600	NCF 3028
	250	68	690	1000	112	1100	1300	NCF 2228
	300	102	1241	1655	179	800	1000	NJG 2328
150	190	20	108	199	19,2	1330	1700	NCF 1830
	190	24	147	282	30	1330	1600	NCF 2830
	210	36	289	486	55	1300	1500	NCF 2930
	225	56	454	709	80	1200	1500	NCF 3030
	270	73	774	1209	131	1000	1100	NCF 2230
	320	108	1445	1938	197	800	900	NJG 2330
160	200	20	110	210	20	1300	1540	NCF 1832
	200	24	148	301	30,1	1300	1400	NCF 2832

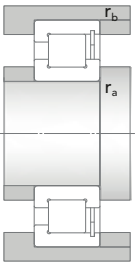


NJG (SL19)

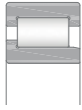
Dimensions					Mass	Designation
d	r _{1,2min}	r _{3,4min}	r _{amax}	r _{bmax}		Standard design
[mm]					[kg]	
100	1,5	1	1,5	1	2,15	NCF 3020
(cont.)	2,1	2,1	2	2	5,1	NCF 2220
	3	-	2,5	-	13	NJG 2320
110	1,1	1	1	1	1,25	NCF 2922
	2	1	2	1	3,5	NCF 3022
	2,1	2,1	2	2	7,15	NCF 2222
	3	-	2,5	-	17,5	NJG 2322
120	1,1	1	1	1	1,75	NCF 2924
	2	1	2	1	3,8	NCF 3024
	2,1	2,1	2	2	9,05	NCF 2224
	3	-	2,5	-	22,5	NJG 2324
130	1,5	1,1	1,5	1	2,35	NCF 2926
	2	1	2	1	5,8	NCF 3026
	3	3	2,5	2,5	11	NCF 2226
	4	-	3	-	28	NJG 2326
140	1,5	1,1	1,5	1	2,4	NCF 2928
	2	1	2	1	6,1	NCF 3028
	3	3	2,5	2,5	14,5	NCF 2228
	4	-	3	-	35,5	NJG 2328
150	1,1	1	1	1	1,3	NCF 1830
	1,1	1	1	1	1,7	NCF 2830
	2	1,1	2	1	3,75	NCF 2930
	2,1	1,1	2	1	7,5	NCF 3030
	3	3	2,5	2,5	18,5	NCF 2230
	4	-	3	-	42,5	NJG 2330
160	1,1	1	1	1	1,45	NCF 1832
	1,1	1	1	1	1,65	NCF 2832



NCF (SL18)

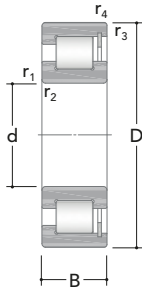


Main dimensions			Basic load ratings		Fatigue load limit	Speed ratings		Designation
d	D	B	Dynamic C	Static C ₀	C _u	Reference	Limiting	Standard design
[mm]			[kN]			[rpm]		
160 (cont.)	220	36	297	524	57,8	1200	1400	NCF 2932
	240	60	510	784	88	1100	1300	NCF 3032
	290	80	993	1480	158	900	1030	NCF 2232
170	215	27	195	376	40	1200	1400	NCF 2834
	230	36	312	553	59	1100	1300	NCF 2934
	240	30	276	439	46,4	1100	1200	316900
	260	67	661	1040	116	1000	1200	NCF 3034
	310	86	1091	1685	174	900	1000	NCF 2234
	360	120	1773	2420	233	700	800	NJG 2334
180	225	22	145	271	27	1100	1300	NCF 1836
	225	27	198	397	40,7	1100	1300	NCF 2836
	250	42	397	682	74	1000	1200	NCF 2936
	280	74	787	1266	136	1000	1100	NCF 3036
	320	86	1132	1767	184	900	900	NCF 2236
	380	126	1849	2620	252	600	700	NJG 2336
190	240	24	173	315	31	1000	1200	NCF 1838
	240	30	229	461	46,1	1000	1200	NCF 2838
	260	42	436	779	81,4	1000	1200	NCF 2938
	290	75	800	1270	138	1000	1100	NCF 3038
	340	92	1263	1920	198	710	900	NCF 2238
	400	132	2186	2990	279	600	700	NJG 2338
200	250	24	178	330	32	1000	1200	NCF 1840
	250	30	230	473	47	1000	1200	NCF 2840
	280	48	521	950	98	1000	1100	NCF 2940
	310	82	923	1500	157	900	1050	NCF 3040
	360	98	1386	2230	223	800	800	NCF 2240
	420	138	2258	3190	289	600	700	NJG 2340
220	270	24	184	362	34,2	1000	1100	NCF 1844

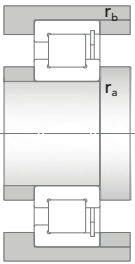


NJG (SL19)

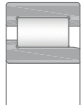
Dimensions					Mass	Designation
d	r _{1,2min}	r _{3,4min}	r _{amax}	r _{bmax}		Standard design
[mm]					[kg]	
160	2	1,1	2	1	4	NCF 2932
(cont.)	2,1	1,1	2	1	9,1	NCF 3032
	3	3	2,5	2,5	23	NCF 2232
170	1,1	1	1	1	2,3	NCF 2834
	2	1,1	2	1	4,3	NCF 2934
	2,7	2,7	2,5	2,5	4,1	316900
	2,1	1,1	2	1	12,5	NCF 3034
	4	4	3	3	28,5	NCF 2234
	4	-	3	-	59,5	NJG 2334
180	1,1	1	1	1	1,95	NCF 1836
	1,1	1	1	1	2,6	NCF 2836
	2	1,1	2	1	6,2	NCF 2936
	2,1	2,1	2	2	16,5	NCF 3036
	4	4	3	3	29,5	NCF 2236
	4	-	3	-	69,5	NJG 2336
190	1,5	1,1	1,5	1	2,45	NCF 1838
	1,5	1,1	1,5	1	3,1	NCF 2838
	2	1,1	2	1	6,5	NCF 2938
	2,1	2,1	2	2	17	NCF 3038
	4	4	3	3	36	NCF 2238
	5	-	4	-	80	NJG 2338
200	1,5	1,1	1,5	1	2,6	NCF 1840
	1,5	1,1	1,5	1	2,6	NCF 2840
	2,1	1,5	2	1,5	9,1	NCF 2940
	2,1	2,1	2	2	22,5	NCF 3040
	4	4	3	3	43,5	NCF 2240
	5	-	4	-	92	NJG 2340
220	1,5	1,1	1,5	1	2,85	NCF 1844



NCF (SL18)

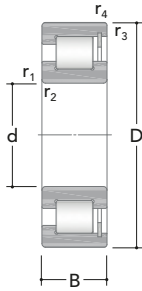


Main dimensions			Basic load ratings		Fatigue load limit	Speed ratings		Designation
d	D	B	Dynamic C	Static C ₀	C _u	Reference	Limiting	Standard design
[mm]			[kN]			[rpm]		
220 (cont.)	270	30	244	523	50	900	1100	NCF 2844
	300	48	552	1040	104	900	1100	NCF 2944
	340	90	1087	1770	183	800	950	NCF 3044
	400	108	1832	2780	258	700	730	NCF 2244
	460	145	2709	3700	331	500	600	NJG 2344
240	300	28	259	502	46,8	900	1000	NCF 1848
	300	36	339	709	68,4	800	1000	NCF 2848
	320	48	584	1130	113	800	900	NCF 2948
	360	92	1146	1950	199	800	900	NCF 3048
	500	155	3115	4427	392	500	540	NJG 2348
260	320	28	273	548	50	800	900	NCF 1852
	320	36	354	778	73,3	730	900	NCF 2852
	360	60	729	1410	141	700	900	NCF 2952
	400	104	1529	2530	248	700	800	NCF 3052
260	540	165	3583	4970	427	400	500	NJG 2352
	540	206	4313	6240	535	300	440	NCF 3352
280	350	33	345	695	64	700	840	NCF 1856
	350	42	443	984	92	700	810	NCF 2856
	380	60	867	1720	165	700	800	NCF 2956
	420	106	1568	2620	257	700	750	NCF 3056
300	380	38	413	849	75	600	800	NCF 1860
	380	48	565	1230	114	600	800	NCF 2860
	420	72	1106	2208	209	600	700	NCF 2960
	460	118	1907	3190	294	600	700	NCF 3060
320	400	38	436	890	79	600	700	NCF 1864
	400	48	575	1300	118	600	700	NCF 2864
	440	72	1125	2320	216	600	650	NCF 2964
	480	121	1973	3420	307	500	600	NCF 3064

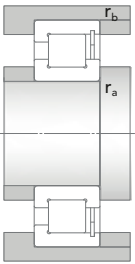


NJG (SL19)

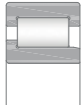
Dimensions					Mass	Designation
d	r _{1,2min}	r _{3,4min}	r _{amax}	r _{bmax}		Standard design
[mm]					[kg]	
220	1,5	1,1	1,5	1	3,9	NCF 2844
(cont.)	2,1	1,5	2	1,5	9,9	NCF 2944
	3	3	2,5	2,5	29,5	NCF 3044
	4	4	3	3	58	NCF 2244
	5	-	4	-	111	NJG 2344
240	2	1,1	2	1	4,4	NCF 1848
	2	1,1	2	1	5,7	NCF 2848
	2,1	1,5	2	1,5	10,5	NCF 2948
	3	3	2,5	2,5	32	NCF 3048
	5	-	4	-	147	NJG 2348
260	2	1,1	2	1	4,75	NCF 1852
	2	1,1	2	1	6,2	NCF 2852
	2,1	1,5	2	1,5	18,5	NCF 2952
	4	4	3	3	46,5	NCF 3052
260	6	-	5	-	177	NJG 2352
	6	6	5	5	220	NCF 3352
280	2	1,1	2	1	7,1	NCF 1856
	2	1,1	2	1	9	NCF 2856
	2,1	1,5	2	1,5	19,5	NCF 2956
	4	4	3	3	50	NCF 3056
300	2,1	1,5	2	1,5	10	NCF 1860
	2,1	1,5	2	1,5	12	NCF 2860
	3	3	2,5	2,5	31	NCF 2960
	4	4	3	3	69	NCF 3060
320	2,1	1,5	2	1,5	10,5	NCF 1864
	2,1	1,5	2	1,5	13,5	NCF 2864
	3	3	2,5	2,5	33	NCF 2964
	4	4	3	3	74,5	NCF 3064



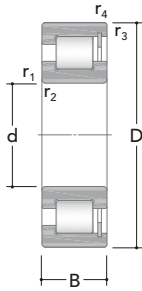
NCF (SL18)



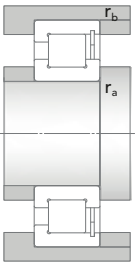
Main dimensions			Basic load ratings		Fatigue load limit	Speed ratings		Designation
d	D	B	Dynamic C	Static C ₀	C _u	Reference	Limiting	Standard design
[mm]			[kN]			[rpm]		
340	420	38	449	947	83	600	650	NCF 1868
	460	72	1192	2470	225	500	610	NCF 2968
	520	133	2377	4100	351	500	570	NCF 3068
360	440	38	405	883	75,1	500	610	NCF 1872
	440	48	629	1440	127	500	610	NCF 2872
	480	72	1231	2570	237	500	600	NCF 2972
	540	134	2397	4220	358	500	600	NCF 3072
380	480	46	632	1270	112	500	600	NCF 1876
	480	60	893	2050	183	500	600	NCF 2876
	520	82	1556	3190	294	500	600	NCF 2976
	560	135	2708	5040	420	500	520	NCF 3076
400	500	46	622	1320	116	500	550	NCF 1880
	500	60	917	2130	187	450	540	NCF 2880
	540	82	1664	3432	308	500	530	NCF 2980
	600	148	2951	5450	446	400	500	NCF 3080
420	520	46	661	1444	123	500	510	NCF 1884
	520	60	940	2250	197	430	530	NCF 2884
	560	82	1629	3530	309	400	500	NCF 2984
	620	150	3019	5690	454	400	500	NCF 3084
440	540	46	672	1477	126	400	500	NCF 1888
	540	60	1059	2690	231	400	500	NCF 2888
	600	95	2024	4411	381	400	500	NCF 2988
	650	157	3685	7250	562	400	440	NCF 3088
460	580	56	925	1950	159	400	500	NCF 1892
	580	72	1288	3010	257	400	500	NCF 2892
	620	95	2070	4480	388	400	440	NCF 2992
	680	163	3686	6840	531	400	430	NCF 3092

**NJG (SL19)**

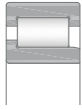
Dimensions					Mass	Designation
d	r _{1,2min}	r _{3,4min}	r _{amax}	r _{bmax}		Standard design
[mm]					[kg]	
340	2,1	1,5	2	1,5	11	NCF 1868
	3	3	2,5	2,5	35	NCF 2968
	5	5	4	4	100	NCF 3068
360	2,1	1,5	2	1,5	11,5	NCF 1872
	2,1	1,5	2	1,5	15	NCF 2872
	3	3	2,5	2,5	36,5	NCF 2972
	5	5	4	4	105	NCF 3072
380	2,1	1,5	2	1,5	19,5	NCF 1876
	2,1	1,5	2	1,5	25	NCF 2876
	4	4	3	3	52	NCF 2976
	5	5	4	4	110	NCF 3076
400	2,1	1,5	2	1,5	20,5	NCF 1880
	2,1	1,5	2	1,5	26,5	NCF 2880
	4	4	3	3	54,5	NCF 2980
	5	5	4	4	145	NCF 3080
420	2,1	1,5	2	1,5	20,5	NCF 1884
	2,1	1,5	2	1,5	28	NCF 2884
	4	4	3	3	57	NCF 2984
	5	5	4	4	150	NCF 3084
440	2,1	1,5	2	1,5	22	NCF 1888
	2,1	1,5	2	1,5	30	NCF 2888
	4	4	3	3	80	NCF 2988
	6	6	5	5	175	NCF 3088
460	3	3	2,5	2,5	34	NCF 1892
	3	3	2,5	2,5	44	NCF 2892
	4	4	3	3	83	NCF 2992
	6	6	5	5	195	NCF 3092



NCF (SL18)

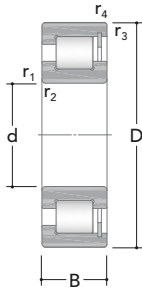


Main dimensions			Basic load ratings		Fatigue load limit	Speed ratings		Designation
d	D	B	Dynamic C	Static C ₀	C _u	Reference	Limiting	Standard design
[mm]			[kN]			[rpm]		
480	600	56	934	2020	168	400	440	NCF 1896
	600	72	1322	3110	262	400	430	NCF 2896
	650	100	2318	4850	401	400	430	NCF 2996
	700	165	3765	7060	539	340	400	NCF 3096
500	620	56	945	2080	170	400	410	NCF 18/500
	620	72	1334	3330	273	400	410	NCF 28/500
	670	100	2379	5327	432	400	400	NCF 29/500
	720	167	3762	7350	559	340	400	NCF 30/500
530	650	56	994	2230	179	350	400	NCF 18/530
	650	72	1409	3440	284	340	400	NCF 28/530
	710	106	2714	5880	456	330	400	NCF 29/530
	780	185	5221	10560	777	300	400	NCF 30/530
560	680	56	1014	2340	184	300	400	NCF 18/560
	680	72	1418	3580	294	300	400	NCF 28/560
	750	112	2970	6600	483	300	400	NCF 29/560
	820	195	5831	11640	853	300	330	NCF 30/560
600	730	60	1043	2520	194	300	400	NCF 18/600
	730	78	1590	4250	336	300	350	NCF 28/600
	800	118	3360	7548	554	300	340	NCF 29/600
630	780	69	1232	2880	230	300	320	NCF 18/630
	780	88	1967	4930	385	300	310	NCF 28/630
	850	128	3693	8530	602	300	300	NCF 29/630
670	820	69	1281	3140	244	300	300	NCF 18/670
	820	88	1962	5260	412	300	300	NCF 28/670
	900	136	3894	8850	620	250	300	NCF 29/670
710	870	74	1533	3690	280	250	300	NCF 18/710
	870	95	2326	6200	472	250	300	NCF 28/710

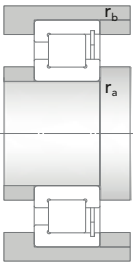


NJG (SL19)

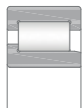
Dimensions					Mass	Designation
d	r _{1,2min}	r _{3,4min}	r _{amax}	r _{bmax}		Standard design
[mm]					[kg]	
480	3	3	2,5	2,5	35,5	NCF 18/96
	3	3	2,5	2,5	46	NCF 28/96
	5	5	4	4	93	NCF 29/96
	6	6	5	5	205	NCF 30/96
500	3	3	2,5	2,5	35,5	NCF 18/500
	3	3	2,5	2,5	48	NCF 28/500
	5	5	4	4	100	NCF 29/500
	6	6	5	5	215	NCF 30/500
530	3	3	2,5	2,5	38,5	NCF 18/530
	3	3	2,5	2,5	49,5	NCF 28/530
	5	5	4	4	120	NCF 29/530
	6	6	5	5	300	NCF 30/530
560	3	3	2,5	2,5	40,5	NCF 18/560
	3	3	2,5	2,5	54	NCF 28/560
	5	5	4	4	140	NCF 29/560
	6	6	5	5	345	NCF 30/560
600	3	3	2,5	2,5	51,5	NCF 18/600
	3	3	2,5	2,5	67,5	NCF 28/600
	5	5	4	4	170	NCF 29/600
630	4	4	3	3	72,5	NCF 18/630
	4	4	3	3	92,5	NCF 28/630
	6	6	5	5	205	NCF 29/630
670	4	4	3	3	76,5	NCF 18/670
	4	4	3	3	98	NCF 28/670
	6	6	5	5	245	NCF 29/670
710	4	4	3	3	92,5	NCF 18/710
	4	4	3	3	115	NCF 28/710



NCF (SL18)



Main dimensions			Basic load ratings		Fatigue load limit	Speed ratings		Designation
d	D	B	Dynamic C	Static C ₀	C _u	Reference	Limiting	Standard design
[mm]			[kN]			[rpm]		
710	950	140	4303	9920	689	230	300	NCF 29/710
(cont.)								
750	920	78	1790	4410	323	230	300	NCF 18/750
	920	100	2662	6840	512	230	300	NCF 28/750
	1000	145	4425	10580	709	210	250	NCF 29/750
800	980	82	1957	4776	343	210	250	NCF 18/800
	980	106	2743	7450	546	210	240	NCF 28/800
	1060	150	4900	11900	793	190	230	NCF 29/800
850	1030	82	2065	5130	370	190	230	NCF 18/850
	1030	106	2837	7920	564	190	230	NCF 28/850
	1120	155	5271	12630	825	180	210	NCF 29/850
900	1090	85	2259	5660	402	180	210	NCF 18/900
	1090	112	3218	8970	642	180	210	NCF 28/900
	1180	165	6011	14520	945	160	200	NCF 29/900
950	1150	90	2390	6240	421	160	200	NCF 18/950
	1150	118	3402	9670	646	160	200	NCF 28/950
	1250	175	6510	16090	1007	150	200	NCF 29/950
1000	1220	100	2952	7420	450	150	200	NCF 18/1000
	1220	128	4113	11460	711	150	200	NCF 28/1000
	1320	185	7467	18270	1139	140	200	NCF 29/1000
1120	1360	106	3757	9500	576	120	150	NCF 18/1120



NJG (SL19)

Dimensions					Mass	Designation
d	r _{1,2min}	r _{3,4min}	r _{amax}	r _{bmax}		Standard design
[mm]					[kg]	
710	6	6	5	5	275	NCF 29/710
(cont.)						
750	5	5	4	4	110	NCF 18/750
	5	5	4	4	138	NCF 28/750
	6	6	5	5	315	NCF 29/750
800	5	5	4	4	126	NCF 18/800
	5	5	4	4	165	NCF 28/800
	6	6	5	5	359	NCF 29/800
850	5	5	4	4	131	NCF 18/850
	5	5	4	4	175	NCF 28/850
	6	6	5	5	406	NCF 29/850
900	5	5	4	4	154	NCF 18/900
	5	5	4	4	208	NCF 28/900
	6	6	5	5	472	NCF 29/900
950	5	5	4	4	185	NCF 18/950
	5	5	4	4	240	NCF 28/950
	7,5	7,5	6	6	565	NCF 29/950
1000	6	6	5	5	230	NCF 18/1000
	6	6	5	5	310	NCF 28/1000
	7,5	7,5	6	6	680	NCF 29/1000
1120	6	6	5	5	298	NCF 18/1120