

NCF series Full Complement Cylindrical Roller Bearings (Equally to SL18 series)



NCF series full complement cylindrical roller bearing is open-type bearing, without seals. The outer ring has a flange, an oil groove and three lubrication holes. The inner ring has two flanges, can be used for axial positioning in one direction. The outer ring is provided with a fixing ring on the other side of the flange to keep the bearing integrated. it is semi-locating bearing. The axial internal clearance allow the bearing to withstand the axial displacement of the axis relative to the shaft, such as the axial displacement caused by the thermal expansion of the shaft.

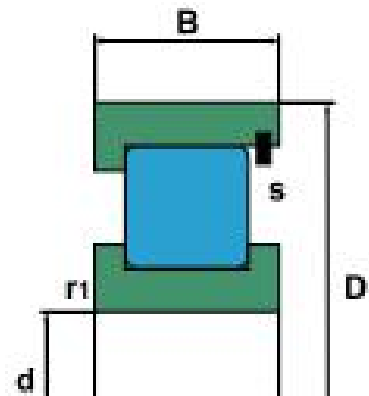
Note: This type bearing sometimes needs high temperature tempering, i.e. S2 or S3, according to the working conditions requirements. Based on this, it needs to be assembled with large radial clearance, i.e. C3 or larger.

INA series & SKF series Comparison Table

INA Type Code	SKF Type Code	Characteristic	Example
SL1818xx	NCF18xx	Semi-locating bearing, Dimension Series 18	SL181856=NCF1856
SL1822xx	NCF22xx	Semi-locating bearing, Dimension Series 22	SL182211=NCF2211
SL1829xx	NCF29xx	Semi-locating bearing, Dimension Series 29	SL182960=NCF2960
SL1923xx	NJG23xx	Semi-locating bearing, Dimension Series 23	SL192340=NJG2340

Product's design information:

1. ID range: 20mm - 670mm;
2. Open type, without seals: Its application environment is limited, can not be used in harsh and dusty environment.
3. Larger size of rollers: large load capacity;
4. Semi-locating bearing;
5. Outer ring be with 1 flange, oil groove and 3 lubricating holes;
6. Inner ring be with 2 flanges, could be equipped with 3 lubricating holes on request;
7. Super-finishing diameter and raceway;
8. Crowned profiling of rollers;





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Our production:



Our service:

1. Before-sales service: consulting about technical information and applications, force analysis, clearance configuration, service-life and reliability analysis;
2. After-sales service: guidance on bearing installation and maintenance, analysis and offer solutions to bearing failure cases, regularly follow-up for feedback.
3. Non-standard bearing available to support customers' technology innovation.
4. OEM manufacturing available.
5. Suitable packaging according to customer's requirements;
6. Free samples available.



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Type code	Alternative code	Boundary dimensions mm					Load Rating kN		Limiting Speed rpm		Mass kg
		d	D	B	r1	S	C	Co	Grease	Oil	
NCF 3004 CV	SL18 3004	20	42	16	0,6	1,5	28	27	1000	9000	0,11
NCF 2204 CV	SL18 2204	20	47	18	1,0	1,0	41	38	9500	8000	0,16
NCF 3005 CV	SL18 3005	25	47	16	0,6	1,5	32	33	9000	7000	0,12
NCF 2205 CV	SL18 2205	25	52	18	1,0	1,0	46	45	8500	6500	0,18
NJG 2305 CV	SL19 2305	25	62	24	1,1	2,0	65	60	7500	5500	0,37
NCF 3006 CV	SL18 3006	30	55	19	1,0	2,0	41	43	7500	6500	0,20
NCF 2206 CV	SL18 2206	30	62	20	1,0	1,0	63	65	7000	5500	0,30
NJG 2306 CV	SL19 2306	30	72	27	1,1	2,0	89	88	6500	4900	0,56
NCF 3007 CV	SL18 3007	35	62	20	1,0	2,0	50	55	6500	6000	0,26
NCF 2207 CV	SL18 2207	35	72	23	1,1	1,0	79	79	6000	5000	0,44
NJG 2307 CV	SL19 2307	35	80	31	1,5	2,0	113	112	5500	4300	0,74
NCF 3008 CV	SL18 3008	40	68	21	1,0	2,0	59	68	6000	5000	0,31
NCF 2208 CV	SL18 2208	40	80	23	1,1	1,0	87	83	5500	4400	0,55
NJG 2308 CV	SL19 2308	40	90	33	1,5	2,0	152	156	5000	3600	1,01
NCF 3009 CV	SL18 3009	45	75	23	1,0	2,0	63	76	5500	5000	0,40
NCF 2209 CV	SL18 2209	45	85	23	1,1	1,0	90	99	5000	4200	0,59
NJG 2309 CV	SL19 2309	45	100	36	1,5	3,0	162	172	4500	3700	1,37
NCF 3010 CV	SL18 3010	50	80	23	1,0	2,0	79	96	5000	4500	0,43
NCF 2210 CV	SL18 2210	50	90	23	1,1	1,0	97	113	4600	3600	0,64
NJG 2310 CV	SL19 2310	50	110	40	2,0	3,0	208	219	4100	3400	1,81
NCF 3011 CV	SL18 3011	55	90	26	1,1	2,0	107	138	4500	3800	0,64
NCF 2211 CV	SL18 2211	55	100	25	1,5	1,5	125	150	4200	3300	0,87
NJG 2311 CV	SL19 2311	55	120	43	3,0	3,0	242	255	3700	3100	2,28
NCF 2912 CV	SL18 2912	60	85	16	1,0	1,0	57	78	4500	3500	0,29
NCF 3012 CV	SL18 3012	60	95	26	1,1	2,0	110	145	4200	3600	0,69
NCF 2212 CV	SL18 2212	60	110	28	1,5	1,5	152	180	3800	3100	1,18
NJG 2312 CV	SL19 2312	60	130	46	2,1	3,0	260	280	3400	2900	2,88
NCF 2913 CV	SL18 2913	65	90	16	1,0	1,0	60	86	4200	3100	0,31
NCF 3013 CV	SL18 3013	65	100	26	1,1	2,0	116	159	3900	3300	0,73
NCF 2213 CV	SL18 2213	65	120	31	1,5	1,5	178	214	3500	3000	1,57
NJG 2313 CV	SL19 2313	65	140	48	2,1	3,5	315	355	3200	2500	3,52
NCF 2914 CV	SL18 2914	70	100	19	1,0	1,0	79	114	3800	3100	0,49
NCF 3014 CV	SL18 3014	70	110	30	1,1	3,0	137	176	3600	3400	1,02
NCF 2214 CV	SL18 2214	70	125	31	1,5	1,5	184	227	3300	2800	1,66
NJG 2314 CV	SL19 2314	70	150	51	2,1	3,5	345	390	2900	2400	4,33



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NCF 2915 CV	SL18 2915	75	105	19	1,0	1,0	81	121	3600	2900	0,52
NCF 3015 CV	SL18 3015	75	115	30	1,1	3,0	145	194	3400	3000	1,06
NCF 2215 CV	SL18 2215	75	130	31	1,5	1,5	190	241	3200	2700	1,75
NCF 2916 CV	SL18 2916	80	110	19	1,0	1,0	84	129	3400	2700	0,55
NCF 3016 CV	SL18 3016	80	125	34	1,1	4,0	173	225	3200	3000	1,43
NCF 2216 CV	SL18 2216	80	140	33	2,0	1,5	226	285	2900	2500	2,15
NJG 2316 CV	SL19 2316	80	170	58	2,1	3,5	480	560	2600	1900	6,32
NCF 2917 CV	SL18 2917	85	120	22	1,1	1,0	105	162	3200	2700	0,81
NCF 3017 CV	SL18 3017	85	130	34	1,1	4,0	178	237	3000	2800	1,51
NCF 2217 CV	SL18 2217	85	150	36	2,0	1,5	255	325	2800	2400	2,74
NJG 2317 CV	SL19 2317	85	180	60	3,0	4,0	510	620	2400	1700	7,34
NCF 2918 CV	SL18 2918	90	125	22	1,1	1,0	109	172	3000	2500	0,84
NCF 3018 CV	SL18 3018	90	140	37	1,5	4,0	208	280	2800	2700	1,97
NCF 2218 CV	SL18 2218	90	160	40	2,0	2,5	290	370	2600	2100	3,48
NJG 2318 CV	SL19 2318	90	190	64	3,0	4,0	560	660	2300	1800	8,83
NCF 2919 CV	SL18 2919	95	130	22	1,1	1,0	118	179	2900	2400	0,86
NCF 2219 CV	SL18 2219	95	170	43	2,1	2,5	340	435	2400	2000	4,17
NJG 2319 CV	SL19 2319	95	200	67	3,0	4,0	580	720	2200	1700	10,2
NCF 2920 CV	SL18 2920	100	140	24	1,1	1,5	136	206	2700	2300	1,14
NCF 3020 CV	SL18 3020	100	150	37	1,5	4,0	219	310	2600	2400	2,15
NCF 2220 CV	SL18 2220	100	180	46	2,1	2,5	395	520	2300	1800	5,13
NJG 2320 CV	SL19 2320	100	215	73	3,0	4,0	710	860	2100	1500	13,0
NCF 2922 CV	SL18 2922	110	150	24	1,1	1,5	140	220	2500	2100	1,23
NCF 3022 CV	SL18 3022	110	170	45	2,0	5,5	285	395	2300	2200	3,50
NCF 2222 CV	SL18 2222	110	200	53	2,1	4,0	455	590	2100	1800	7,24
NJG 2322 CV	SL19 2322	110	240	80	3,0	5,0	850	980	1900	1300	17,0
NCF 2924 CV	SL18 2924	120	165	27	1,1	1,5	180	295	2300	1900	1,73
NCF 3024 CV	SL18 3024	120	180	46	2,0	5,5	300	435	2200	1900	3,80
NCF 2224 CV	SL18 2224	120	215	58	2,1	4,0	540	730	1900	1500	9,08
NJG 2324 CV	SL19 2324	120	260	86	3,0	5,0	1000	1240	1700	1200	22,3
NCF 2926 CV	SL18 2926	130	180	30	1,5	2,0	214	355	2100	1800	2,33
NCF 3026 CV	SL18 3026	130	200	52	2,0	5,5	435	620	2000	1700	5,65
NCF 2226 CV	SL18 2226	130	230	64	3,0	5,0	630	860	1800	1400	11,3
NCF 2928 CV	SL18 2928	140	190	30	1,5	2,0	232	385	2000	1600	2,42
NCF 3028 CV	SL18 3028	140	210	53	2,0	5,5	455	680	1900	1500	6,04
NCF 2228 CV	SL18 2228	140	250	68	3,0	5,0	720	1020	1700	1300	14,5
NCF 2930 CV	SL18 2930	150	210	36	2,0	2,5	305	490	1800	1500	3,77
NCF 3030 CV	SL18 3030	150	225	56	2,1	7,0	480	710	1700	1500	7,33



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NCF 2230 CV	SL18 2230	150	270	73	3,0	6,0	830	1180	1500	1200	18,4
NCF 2932 CV	SL18 2932	160	220	36	2,0	2,5	320	520	1700	1300	4,00
NCF 3032 CV	SL18 3032	160	240	60	2,1	7,0	550	820	1600	1300	8,80
NCF 2934 CV	SL18 2934	170	230	36	2,0	2,5	330	560	1600	1200	4,30
NCF 3034 CV	SL18 3034	170	260	67	2,1	7,0	710	1070	1500	1100	12,2
NCF 2234 CV	SL18 2234	170	310	86	3,0	7,0	1150	1680	1400	900	28,7
NCF 2936 CV	SL18 2936	180	250	42	2,0	2,5	410	690	1500	1200	6,20
NCF 3036 CV	SL18 3036	180	280	74	2,1	7,0	820	1260	1400	1000	16,1
NCF 2236 CV	SL18 2236	180	320	86	4,0	7,0	1190	1780	1300	850	29,8
NCF 2938 CV	SL18 2938	190	260	42	2,0	2,5	455	790	1400	1100	6,50
NCF 3038 CV	SL18 3038	190	290	75	2,1	9,0	840	1320	1400	1000	17,0
NCF 2238 CV	SL18 2238	190	340	92	4,0	19	1310	1920	1200	800	35,7
NCF 1840 CV	SL18 1840	200	250	24	1,5	2,0	183	330	1400	1200	2,57
NCF 2940 CV	SL18 2940	200	280	48	2,1	3,0	550	960	1400	1000	9,10
NCF 3040 CV	SL18 3040	200	310	82	2,1	9,0	960	1530	1300	900	21,8
NCF 2240 CV	SL18 2240	200	360	98	4,0	9,0	1420	2040	1200	800	43,1
NCF 1844 CV	SL18 1844	220	270	24	1,5	2,0	192	365	1300	1000	2,80
NCF 2944 CV	SL18 2944	220	300	48	2,1	3,0	580	1050	1200	850	9,90
NCF 3044 CV	SL18 3044	220	340	90	3,0	9,0	1160	1840	1200	850	28,4
NCF 1848 CV	SL18 1848	240	300	28	2,0	3,0	224	435	1200	950	4,40
NCF 2948 CV	SL18 2948	240	320	48	2,1	3,0	610	1140	1200	750	10,6
NCF 3048 CV	SL18 3048	240	360	92	3,0	11	1220	2010	1100	750	30,9
NCF 1852 CV	SL18 1852	260	320	28	2,0	3,0	234	475	1100	850	4,71
NCF 2952 CV	SL18 2952	260	360	60	2,1	3,5	790	1470	1000	700	18,5
NCF 3052 CV	SL18 3052	260	400	104	4,0	11	1620	2550	1000	650	44,5
NCF 1856 CV	SL18 1856	280	350	33	2,0	3,0	315	620	1000	800	7,00
NCF 2956 CV	SL18 2956	280	380	60	2,1	3,5	920	1740	1000	600	19,7
NCF 3056 CV	SL18 3056	280	420	106	4,0	11	1670	2700	950	600	48,00
NCF 1860 CV	SL18 1860	300	380	38	2,1	3,5	380	750	950	700	10,00
NCF 2960 CV	SL18 2960	300	420	72	3,0	5,0	1180	2230	900	550	31,2
NCF 3060 CV	SL18 3060	300	460	118	4,0	14,0	2040	3350	850	500	66,6
NCF 1864 CV	SL18 1864	320	400	38	2,1	4,5	390	800	900	650	10,6
NCF 2964 CV	SL18 2964	320	440	72	3,0	5,0	1220	2370	850	500	32,9
NCF 3064 CV	SL18 3064	320	480	121	4,0	14	2100	3500	800	500	71,7
NCF 1868 CV	SL18 1868	340	420	38	2,1	4,5	405	840	850	650	11,2
NCF 2968 CV	SL18 2968	340	460	72	3,0	5,0	1260	2500	800	480	34,7
NCF 3068 CV	SL18 3068	340	520	133	5,0	16	2500	4150	750	450	95,8
NCF 1872 CV	SL18 1872	360	440	38	2,1	4,5	426	890	800	550	11,7



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NCF 2972 CV	SL18 2972	360	480	72	3,0	5,0	1290	2650	750	440	36,4
NCF 3072 CV	SL18 3072	360	540	134	5,0	16	2550	4350	700	430	101
NCF 1876 CV	SL18 1876	380	480	46	2,1	6,0	590	1190	750	550	19,2
NCF 2976 CV	SL18 2976	380	520	82	4,0	5,0	1670	3350	700	400	52,1
NCF 3076 CV	SL18 3076	380	560	135	5,0	16	2600	4500	700	410	106
NCF 1880 CV	SL18 1880	400	500	46	2,1	6,0	600	1260	700	490	20
NCF 2980 CV	SL18 2980	400	540	82	4,0	5,0	1730	3560	700	370	54,3
NCF 3080 CV	SL18 3080	400	600	148	5,0	18	3100	5400	650	360	140
NCF 1884 CV	SL18 1884	420	520	46	2,1	6,0	620	1310	700	470	20,9
NCF 2984 CV	SL18 2984	420	560	82	4,0	5,0	1750	3600	650	360	56,9
NCF 1888 CV	SL18 1888	440	540	46	2,1	6,0	630	1380	650	440	21,8
NCF 2988 CV	SL18 2988	440	600	95	4,0	7,0	2100	4150	600	330	78,1
NCF 1892 CV	SL18 1892	460	580	56	3,0	7,0	790	1680	600	420	33,9
NCF 2992 CV	SL18 2992	460	620	95	4,0	7,0	2140	4300	600	320	81,1
NCF 1896 CV	SL18 1896	480	600	56	3,0	7,0	810	1740	600	400	35,2
NCF 2996 CV	SL18 2996	480	650	100	5,0	7,0	2410	4850	550	290	94,7
NCF 18/500 CV	SL18 18/500	500	620	56	3,0	7,0	830	1830	600	380	36,5
NCF 29/500 CV	SL18 29/500	500	670	100	5,0	7,0	2450	5000	550	280	98,3
NCF 18/530 CV	SL18 18/530	530	650	56	3,0	7,0	990	2240	600	360	36,9
NCF 18/560 CV	SL18 18/560	560	680	56	3,0	7,0	1020	2360	600	340	39,3
NCF 18/600 CV	SL18 18/600	600	730	60	3,0	7,0	1140	2680	600	320	38,9
NCF 18/630 CV	SL18 18/630	630	780	69	4,0	7,0	1470	3400	600	300	38,8
NCF 18/670 CV	SL18 18/670	670	820	69	4,0	7,0	1520	3550	600	280	72,7

For more information, please contact [Tedin's](#) technical center.