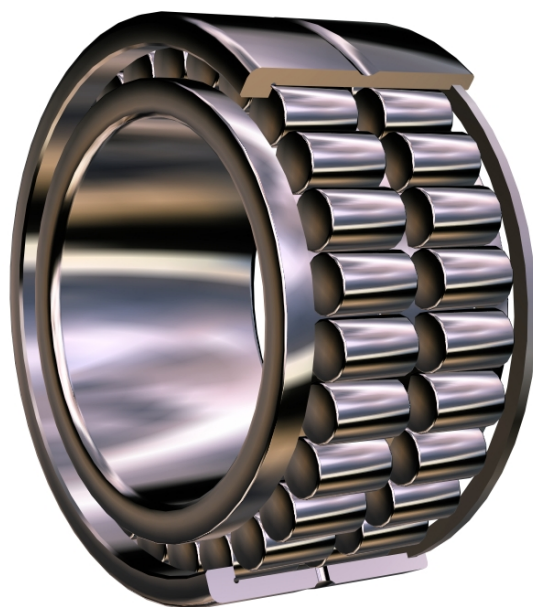


SBI

满装圆柱滚子轴承

Full Complement Cylindrical Roller Bearings

CAT-021



洛阳世必爱特种轴承有限公司

Luoyang SBI Special Bearing Co., Ltd.

满装圆柱滚子轴承

满装圆柱滚子轴承是为了承受重载荷而设计的。在同样宽度下，这种轴承与传统型带保持架轴承相比，具有极高的承载能力，径向截面小，可以节省空间，但转速相对较低。所有多列圆柱滚子轴承在外圈上有一润滑槽和润滑孔。

为了使轴承正常工作，在连续运转的情况下，轴承必须承受一定的最小负荷，即 $C/P < 25$ 。否则因润滑不足和高速运转时会加剧磨损。

NCF ••• V 型满装圆柱滚子轴承，外圈具单挡边，无挡边侧有锁圈，可对机轴作单向定位，轴承内部的轴向间隙“S”保证了机轴相对于轴承箱的轴向定位移。“S”值可向本公司询问。

NJ ••• V 型满装圆柱滚子轴承，用于极重负荷和低速场合，具有自锁滚子组，即使拆下内圈，滚子也不会散落，因此该型轴承安装拆卸方便，可承受单向轴向负荷，作单向定位。

NNF ••• 2LSNVY 型双列满装圆柱滚子轴承，具有两个内圈，两个内圈由夹持圈联接在一起，不可分离，外圈有一个中挡边，可承受双向的轴向负荷，用作定位轴承。由于两列滚子之间的距离较大，还可承受倾覆力矩。外圈表面有两个止动槽，可以轴向定位。该型轴承两侧装有接触式密封圈，内装锂基脂，运行温度限于 $-40^{\circ}\text{C} \sim +80^{\circ}\text{C}$ 。在一定的条件下，该型轴承无需保养，但当运行时有水汽或污染，且常为中速或高速运行，则必须补充润滑。在采用机油润滑的场合，需拆除密封圈，且清洗轴承内的润滑脂，采用机油润滑时转中提高 30%。

满装圆柱滚子轴承的尺寸公差和几何偏差应符合 GB/T307.1-94 (ISO492-1994) P0 级公差等级，并且正常原始径向游隙 C0，也可要求具 C2 到 C4 原始径向游隙的轴承。但定货时在轴承代号后需增加相应的后缀。橡塑螺杆挤出机一般选用 C3 组游隙。

如需要更高精度的轴承，请直接与本公司联系。

配合公差可参考轴承座公差的选择原则及轴公差极限选择原则。

轴承允许承受一定的轴向负荷。充分的润滑是承受轴向负荷的一个先决条件。单向定位轴承和定位轴承其承受轴向负荷的挡边必须完全受到支承。

安装与拆卸，当安装或拆卸圆柱滚子轴承时必须特别注意，安装或拆卸力不能直接通过圆柱滚子和套圈挡边来传递。

轴承座公差的选择原则

工作条件			公差带	举 例
整体式 轴承座	外圈受旋转 负荷	冲击性重负荷	P7	惰轮、滑轮
		正常负荷	N7	滚轮、曲柄机构
		轻变动负荷	M7	张力轮
剖分式轴承座 或整体式轴承 座	变动负荷	重冲击负荷	M7	偏心机构、泵
		正常负荷	K7	压缩机
		轻负荷	J7	曲轴
	外圈受点负 荷	对整体轴承座中的滚针轴承， 在重负荷和正常负荷下	J7	一般工程机械、 齿轮箱
		对剖分式轴承座中的滚针轴承和圆柱滚子轴 承，在正常负荷下	H7	一般工程机械
		对运转条件不高的圆柱滚子轴承，在正常负荷 下	H8	要求不高的轴承配置
高精度装置		轻负荷，高运转精度，挠度变形小	K6	机床主轴、 固定中心架

轴公差极限选择原则

工作条件		轴直径 d (mm)		公差带	举例
		超过	至		在静止轴上的
内圈受点负荷	易于安装	所有轴承直径		g6	滚轮：调整杆、齿轮箱内轮、滑轮、滚轮张力轮
	一般应用			h6	
内圈受旋转负荷或变动负荷	轻负荷和变动负荷	---	50	j6	齿轮箱，工作主轴，电动马达，磨床主轴，曲柄机构、压缩机、泵、机、一般工程机械
		50	100	k6	
		100	200	m6	
		200	---	n6	
	正常负荷	---	50	k6	
		50	150	m6	
		150	200	n6	
		200	500	p6	
	在严酷工作条件和冲击下，重负荷	---	150	n6	
		150	---	p6	

注：表列轴承座孔公差仅适用于钢或铸铁轴承座。轴公差仅适用于实心轴。如果用轻金属轴承座时，应选择较紧的配合。由于各种因素的影响，不可能找到一条包括各种因素的、正确的配合公差选择原则。因此，表中所列之值仅只能当作是参考值。

Full complement cylindrical roller bearings

SBI full complement cylindrical roller bearings are designed to carry heavy load. Comparing with traditional bearings with cage, full complement cylindrical bearings have much higher loading capacity. The radial cross section of the type of bearings is very small. So it can be very space-saving. However the limiting speed of the bearings is relatively lower. All the multi-row cylindrical roller bearings are with a lubrication groove and one nipple on the outer ring.

A minimal load is required ($C/P < 25$) for the bearings to run well in succession. Otherwise wear may happen when lubrication is running out or rotating speed is high.

NCF...V type full complement cylindrical roller bearings are with a single rib on one side of the outer ring. A snap ring is on the other side which makes the shaft be stationary in single direction. The axial gap “s” inside the bearings ensures the axial displacement of shaft to the bearing housing case. For this “s” value, please consult SBI technical service.

NJ...V type full complement cylindrical roller bearings is applied under very high loads and slow rotating speed conditions. The rollers are self-locked and will not fall apart even if the inner ring is removed. Therefore, the mounting and dismantling of the type of bearings are convenient. The bearings can carry axial load in one direction.

NNF...2LSNVY type double-row full complement cylindrical roller bearings are with two inseparable inner rings joined by a holding ring. There is a rib in middle of the outer ring. The bearings can carry axial load in both directions and be used as stationary bearings. As the distance between the two rows of rollers is big, the bearings can also take some overturning moment. On the outer ring there are two snap grooves for axial orientation. This type of bearings is with contact seals on both sides and with lithium based grease. The operating temperature limit for the bearings is from -40 to 80 °C. The kind of bearings is generally free of maintenance under some certain conditions,. But in case that there is vapor or dust, and the bearings are running in medium or high speed, supplement lubricant is absolutely necessary. If using rare oil as lubricant, the seals should be removed and all the grease within the bearings be washed out. In that case, the limit rotating speed can be increased 30%.

The dimension tolerance and geometry deviation of the type of bearings are in accordance with Grade P0 of GB 307.1-1994(ISO 492-1994). And the normal radial clearance is with group C0. Bearings with normal radial clearance of Group C2 or C4 are also available. In that case some suffix should be added to the bearing code. For example, bearings with group C3 are generally selected for the plastic extruders.

If you have requirement for higher grade bearings, please contact SBI service.

For mounting tolerance, you can refer to the selection principle of housing tolerance and shaft tolerance limits. Some certain axial loads are allowed for the type of bearings. In that case, sufficient lubrication is a premise. In the single direction stationary

bearings and stationary bearings, the rib that carrying axial load must be fully supported.

Attention: when mounting and dismantling the cylindrical roller bearings, the force should not be transmitted directly through the cylindrical rollers and the rib of rings.

Selecting Principle of Housing Bore Tolerance

Operating condition			Tolerance	Examples
Integrated housing	Rotating load on outer ring	Heavy Shock Load	P7	Idler, Pulley
		Normal Load	N7	Rolling wheel, Crank mechanism
		Light and Variable Load	M7	Tension wheel
Separable or Integrated Housing	Variable load	Heavy Shock Load	M7	Eccentric mechanism, Pump
		Normal Load	K7	Compressor
		Light Load	J7	Crank Shaft
	Point Load on Outer ring	Under heavy load and normal load, for needle bearing in solid housing	J7	General engineering machine, gearbox
		Under normal load, for Needle bearing and Cylindrical roller bearing in split housing	H7	General engineering machine
		Cylindrical roller bearing at normal conditions, Under Normal Load	H8	Common bearings unit
High accuracy device		Light load. High running accuracy	K6	Main spindle of Machine tools, fixing function centric shelf

Selecting principle of Shaft Tolerance Limits

Operating condition		Shaft diameter d(mm)		Tolerance	Examples
Point Load on Inner ring	Ease to mount	from	to		Rolling wheel on static shaft: adjusting pole, inner gear in gearbox, pulley, tension wheel for rolling wheel
	General application	All		G6	
Rotating or Variable load on inner ring	Light and variable load	-----	50	J6	Gearbox, main working spindle, electric motor, spindle of grinding machine, compressor, pump, machine tool, general engineering machine
		50	100	K6	
		100	200	M6	
		200	-----	N6	
	Normal load	-----	50	K6	
		50	150	M6	
		150	200	N6	
		200	500	P6	
	In poor working conditions and with shock heavy load	-----	150	N6	
		150	-----	P6	

Note: The housing bore tolerance indicated in the table only applies to steel or casting bearing housing. The shaft tolerance only applies to solid shaft. In case of light metal housing, tighter mounting tolerance should be selected. Because of the influence of various factors, it is impossible to find a selecting principle that can include all the factors and the proper mounting tolerance. Therefore, the values indicated in the table are only for reference.

单列满装圆柱滚子轴承 Single-row full complement cylindrical roller bearings

外形尺寸 (mm) Dimension				额定负荷 (kN) Rated load		极限转速 (r/min)* Limiting speed	重量 (Kg) Weight	轴承代号 Bearing code	
d	D	B	r _s min	Cr	Cor			SBI	INA
20	42	16	0.6	27.5	26.5	9000	0.11	NCF3004V	SL183004
	47	18	1	41.0	37.5	7000	0.16	NCF2204V	SL182204
25	47	16	0.6	31.5	32.5	7500	0.12	NCF3005V	SL183005
	52	18	1	46.0	45.0	6000	0.18	NCF2205V	SL182205
	62	24	1.1	63.0	57.0	4500	0.37	NJ2305V	SL192305
30	55	19	1	40.5	43.0	6500	0.2	NCF3006V	SL183006
	62	20	1	61.0	63.0	5000	0.3	NCF2206V	SL182206
	72	27	1.1	87.0	85.0	3800	0.56	NJ2306V	SL192306
35	62	20	1	49.5	55.0	5500	0.26	NCF3007V	SL183007
	72	23	1.1	76.0	77.0	4300	0.44	NCF2207V	SL182207
	80	31	1.5	113	112	3400	0.74	NJ2307V	SL192307
40	68	21	1	59.0	68.0	5000	0.31	NCF3008V	SL183008
	80	23	1.1	84.0	89.0	3800	0.55	NCF2208V	SL182208
	90	33	1.5	152	155	3000	1.01	NJ2308V	SL192308
45	75	23	1	63.0	76.0	4600	0.4	NCF3009V	SL183009
	85	23	1.1	88.0	96.0	3600	0.59	NCF2209V	SL182209
	100	36	1.5	162	165	2700	1.37	NJ2309V	SL192309
50	80	23	1	77	92	4300	0.43	NCF3010V	SL183010
	90	23	1.1	95	109	3300	0.64	NCF2210V	SL182210
	110	40	2	205	215	2500	1.81	NJ2310V	SL192310
55	90	26	1.1	105	134	3700	0.64	NCF3011V	SL183011
	100	25	1.5	122	145	3000	0.87	NCF2211V	SL182211
	120	43	2	242	255	2300	2.28	NJ2311V	SL192311
60	85	16	1	54.0	74.0	3800	0.29	NCF2912V	SL182912
	95	26	1.1	108	141	3500	0.69	NCF3012V	SL183012
	110	28	1.5	152	179	2700	1.18	NCF2212V	SL182212
	130	46	2.1	260	280	2100	2.88	NJ2312V	SL192312

单列满装圆柱滚子轴承 Single-row full complement cylindrical roller bearings

外形尺寸 (mm) Dimension				额定负荷 (kN) Rated load		极限转速 Limit speed	重量 Weight (kg)	轴承代号 Bearing code	
d	D	B	r _s	Cr	Cor			SBI	INA
65	90	16	1	57	81	3500	0.31	NCF2913V	SL182913
	100	26	1.1	113	154	3200	0.73	NCF3013V	SL183013
	120	31	1.5	177	213	2500	1.57	NCF2213V	SL182213
	140	48	2.1	315	355	1900	3.52	NJ2313V	SL192313
70	100	19	1	76	108	3200	0.49	NCF2914V	SL182914
	110	30	1.1	134	171	3100	1.02	NCF3014V	SL183014
	125	31	1.5	183	226	2400	1.66	NCF2214V	SL182214
	150	51	2.1	345	390	1800	4.33	NJ2314V	SL192314
75	105	19	1	78	116	3000	0.52	NCF2915V	SL182915
	115	30	1.1	141	188	2800	1.06	NCF3015V	SL183015
	130	31	1.5	190	239	2300	1.75	NCF2215V	SL182215
	160	55	2.1	410	475	1700	5.30	NJ2315V	SL192315
80	110	19	1	81	123	2900	0.55	NCF2916V	SL182916
	125	34	1.1	173	224	2600	1.43	NCF3016V	SL183016
	140	33	2	223	280	2100	2.15	NCF2216V	SL182216
	170	58	2.1	480	560	1600	6.32	NJ2316V	SL192316
85	120	22	1.1	102	155	2700	0.81	NCF2917V	SL182917
	130	34	1.1	178	235	2500	1.51	NCF3017V	SL183017
	150	36	2	255	320	2000	2.74	NCF2217V	SL182217
	180	60	3	510	620	1500	7.34	NJ2317V	SL192317
90	125	22	1.1	106	165	2500	0.84	NCF2918V	SL182918
	140	37	1.5	207	280	2300	1.97	NCF3018V	SL183018
	160	40	2	285	365	1900	3.48	NCF2218V	SL182218
	190	64	3	560	660	1400	8.83	NJ2318V	SL192318
95	130	22	1.1	114	172	2400	0.86	NCF2919V	SL182919
	170	43	2.1	335	430	1700	4.17	NCF2219V	SL182219
	200	67	3	580	720	1350	10.2	NJ2319V	SL192319
100	140	24	1.1	132	199	2300	1.14	NCF2920V	SL182920
	150	37	1.5	218	305	2200	2.15	NCF3020V	SL183020
	180	46	2.1	390	520	1600	5.13	NCF2220V	SL182220
	215	73	3	710	860	1300	13	NJ2320V	SL192320
110	150	24	1.1	137	213	2100	1.23	NCF2922V	SL182922
	170	45	2	285	395	2000	3.5	NCF3022V	SL183022
	200	53	2.1	455	590	1500	7.24	NCF2222V	SL182222
	240	80	3	840	970	1150	17	NJ2322V	SL192322
120	165	27	1.1	176	285	1900	1.73	NCF2924V	SL182924
	180	46	2	300	435	1800	3.8	NCF3024V	SL183024
	215	58	2.1	530	730	1400	9.08	NCF2224V	SL182224
	260	86	3	990	1220	1050	22.3	NJ2324V	SL192324

单列满装圆柱滚子轴承 Single-row full complement cylindrical roller bearings

外形尺寸 (mm) Dimension				额定负荷 (kN) Rated load		极限转速 Limit speed (r/min)*	重量 Weight (kg)	轴承代号 Bearing code	
d	D	B	rs (mm)	Cr	Cor			SBI	INA
130	180	30	1.5	210	350	1800	2.33	NCF2926V	SL182926
	200	52	2	430	610	1700	5.65	NCF3026V	SL183026
	230	64	3	630	860	1300	11.25	NCF2226V	SL182226
140	190	30	1.5	228	375	1600	2.42	NCF2928V	SL182928
	210	53	2	455	670	1500	6.04	NCF3028V	SL183028
	250	68	3	720	1020	1200	14.17	NCF2228V	SL182228
150	210	36	2	455	670	1500	3.77	NCF2930V	SL182930
	225	56	2.1	475	700	1500	7.33	NCF3030V	SL183030
	270	73	3	830	1180	1100	18.43	NCF2230V	SL182230
160	220	36	2	320	520	1400	4	NCF2932V	SL182932
	240	60	2.1	540	810	1400	8.8	NCF3032V	SL183032
	290	80	3	1020	1460	1000	23	NCF2232V	SL182232
170	230	36	2	330	560	1300	4.3	NCF2934V	SL182934
	260	67	2.1	710	1070	1300	12.2	NCF3034V	SL183034
	310	86	4	1140	1660	950	28.65	NCF2234V	SL182234
180	250	42	2	410	690	1300	6.2	NCF2936V	SL182936
	280	74	2.1	820	1260	1200	16.1	NCF3036V	SL183036
	320	86	4	1180	1760	900	29.8	NCF2236V	SL182236
190	260	42	2	455	790	1200	6.5	NCF2938V	SL182938
	290	75	2.1	840	1320	1100	17	NCF3038V	SL183038
	340	92	4	1300	1900	850	35.65	NCF2238V	SL182238
200	250	24	1.5	178	320	1200	2.57	NCF1840V	SL181840
	280	48	2.1	550	940	1100	9.1	NCF2940V	SL182940
	310	82	2.1	960	1530	1100	21.8	NCF3040V	SL183040
	360	98	4	1420	2040	850	43.12	NCF2240V	SL182240
220	270	24	1.5	187	350	1100	2.8	NCF1844V	SL181844
	300	48	2.1	570	1040	1000	9.9	NCF2944V	SL182944
	340	90	3	1150	1810	1000	28.4	NCF3044V	SL183044
240	300	28	2	212	405	1000	4.4	NCF1848V	SL181848
	320	48	2.1	600	1130	950	10.6	NCF2948V	SL182948
	360	92	3	1210	1990	900	30.9	NCF3048V	SL183048
260	320	28	2	222	440	950	4.71	NCF1852V	SL181852
	360	60	2.1	790	1460	900	18.5	NCF2952V	SL182952
	400	104	4	1620	2550	800	44.5	NCF3052V	SL183052

单列满装圆柱滚子轴承 Single-row full complement cylindrical roller bearings

外形尺寸 (mm) Dimension				额定负荷 (kN) Rated load		极限转速 Limit speed (r/min)*	重量 Weight (kg)	轴承代号 Bearing code	
d	D	B	rs (mm)	Cr	Cor			SBI	INA
280	350	33	2	305	600	850	7	NCF1856V	SL181856
	380	60	2.1	920	1740	800	19.7	NCF2956V	SL182956
	420	106	4	1660	2700	800	48	NCF3056V	SL183056
300	380	38	2.1	375	730	800	10	NCF1860V	SL181860
	420	72	3	1180	2230	750	31.2	NCF2960V	SL182960
	460	118	4	2040	3350	700	66.6	NCF3060V	SL183060
320	400	38	2.1	385	780	750	10.6	NCF1864V	SL181864
	440	72	3	1220	2360	700	32.9	NCF2964V	SL182964
	480	121	4	2090	3500	650	71.7	NCF3064V	SL183064
340	420	38	2.1	395	820	700	11.2	NCF1868V	SL181868
	460	72	3	1260	2500	700	34.7	NCF2968V	SL182968
	520	133	5	2490	4150	600	95.8	NCF3068V	SL183068
360	440	38	2.1	410	870	650	11.7	NCF1872V	SL181872
	480	72.3	1	290	2650	650	36.4	NCF2972V	SL182972
	540	134	5	2550	4350	550	101	NCF3072V	SL183072
380	480	46	2.1	570	1150	600	19.2	NCF1876V	SL181876
	520	82	4	1670	3300	600	52.1	NCF2976V	SL182976
	560	135	5	2650	4550	550	106	NCF3076V	SL183076
400	500	46	2.1	590	1220	600	20	NCF1880V	SL181880
	540	82	4	1720	3500	550	54.3	NCF2980V	SL182980
	600	148	5	3100	5500	500	140	NCF3080V	SL183080
420	520	46	2.1	600	1260	550	20.9	NCF1884V	SL181884
	560	82	4	1750	3600	550	56.9	NCF2984V	SL182984
440	540	46	2.1	610	1320	550	21.8	NCF1888V	SL181888
	600	95	4	2130	4200	500	78.1	NCF2988V	SL182988
460	580	56	3	790	1660	500	33.9	NCF1892V	SL181892
	620	95	4	2160	4350	500	81.1	NCF2992V	SL182992
480	600	56	3	800	1720	500	35.2	NCF1896V	SL181896
	650	100	5	2430	4900	480	94.7	NCF2996V	SL182996
500	620	56	3	820	1810	480	36.5	NCF18/500V	SL1818/500
	670	100	5	2460	5100	460	98.3	NCF29/500V	SL1829/500

*表列为油润滑数值,脂润滑为表列数值 50%.

The values in the table are for oil lubricant, the grease lubricant values are 50% of these values.

双列满装圆柱滚子轴承 Double-row full complement cylindrical roller bearings

外形尺寸 (mm) Dimension				额 定 负 荷 (kN) Rated load		极限转速 Limiting speed (r/min) *	重 量 (kg) Weight	轴承代号 Bearing code	
d	D	B	rs min	Cr	Cor			SBI	INA
20	42	30	0.6	47.5	53	9000	0.2	NNCF5004V	SL185004
25	47	30	0.6	54	65	7500	0.23	NNCF5005V	SL185005
30	55	34	1	70	86	6500	0.35	NNCF5006V	SL185006
35	62	36	1	85	109	5500	0.46	NNCF5007V	SL185007
40	68	38	1	101	136	5000	0.56	NNCF5008V	SL185008
45	75	40	1	108	151	4600	0.71	NNCF5009V	SL185009
50	80	40	1	131	184	4300	0.76	NNCF5010V	SL185010
55	90	46	1.1	179	270	3700	1.16	NNCF5011V	SL185011
60	85	25	1	67	115	3700	0.48	NNCF4912V	SL184912
	95	46	1.1	184	280	3500	1.24	NNCF5012V	SL185012
65	100	46	1.1	194	310	3200	1.32	NNCF5013V	SL185013
70	100	30	1	103	178	3200	0.78	NNCF4914V	SL184914
	110	54	1.1	229	340	3100	1.85	NNCF5014V	SL185014
75	115	54	1.1	242	375	2800	1.93	NNCF5015V	SL185015
80	110	30	1	109	199	2900	0.88	NNCF4916V	SL184916
	125	60	1.1	295	450	2600	2.59	NNCF5016V	SL185016
85	130	60	1.1	305	470	2500	2.72	NNCF5017V	SL185005

续前表：双列满装圆柱滚子轴承 Double-row full complement cylindrical roller bearings

外形尺寸 (mm) Dimension				额定负荷 (kN) Rated load		极限转速 Limiting speed (r/min)*	重量 (Kg) Weight	轴承代号 Bearing code	
d	D	B	r _s min	Cr	Cor			SBI	INA
90	125	35	1.1	149	280	2500	1.35	NNCF4918V	SL184918
	140	67	1.5	355	560	2300	3.62	NNCF5018V	SL185018
100	140	40	1.1	191	370	2200	1.95	NNCF4920V	SL184920
	150	67	1.5	375	610	2200	3.94	NNCF5020V	SL185020
110	150	40	1.1	198	400	2100	2.15	NNCF4922V	SL184922

	170	80	2	490	790	2000	6.32	NNCF5022V	SL185022
120	165	45	1.1	222	440	1900	2.95	NNCF4924V	SL184924
	180	80	2	520	870	1800	6.77	NNCF5024V	SL185024
130	180	50	1.5	260	510	1700	3.95	NNCF4926V	SL184926
	200	95	2	740	1220	1700	10.2	NNCF5026V	SL185026
140	190	50	1.5	270	550	1600	4.2	NNCF4928V	SL184928
	210	95	2	780	1340	1500	11.1	NNCF5028V	SL185028
150	210	60	2	410	820	1500	6.65	NNCF4930V	SL184930
	225	100	2.1	101	400	1500	13.3	NNCF5030V	SL185030
160	220	60	2	425	880	1400	7	NNCF4932V	SL184932
170	230	60	2	435	930	1300	7.35	NNCF4934V	SL184934
180	250	69	2	570	1200	1300	10.8	NNCF4936V	SL184936
190	260	69	2	580	1270	1200	11.2	NNCF4938V	SL184938
200	280	80	2.1	690	1480	1100	15.8	NNCF4940V	SL184940
220	300	80	2.1	720	1590	1000	17.2	NNCF4944V	SL184944
240	320	80	2.1	740	1710	950	18.5	NNCF4948V	SL184948
260	360	100	2.1	1110	2490	900	32	NNCF4952V	SL184952
280	380	100	2.1	1150	2700	800	34	NNCF4956V	SL184956
300	420	118	3	1650	3800	750	53	NNCF4960V	SL184960
320	440	118	3	1720	4100	700	56	NNCF4964V	SL184964
340	460	118	3	1770	4300	650	59	NNCF4968V	SL184968
360	480	118	3	1810	4500	650	62.1	NNCF4972V	SL184972
380	520	140	4	2270	5600	600	92.4	NNCF4976V	SL184976
400	540	140	4	2330	5900	550	96.5	NNCF4980V	SL184980

*表列为油润滑数值，脂润滑为表列数值 50%

The values in the table are for oil lubricant, the grease lubricant values are 50% of these values.

外圈有止动槽，双密封双列满装圆柱滚子轴承

Double-row full complement cylindrical roller bearings with snap groove on the outer ring & double seals

外形尺寸（mm） Dimension					额定负荷 （kN） Rated load		极限转速 （r/min）* Limiting speed	重量 （Kg） Weight	轴承代号 Bearing code	
d	D	C	B	r _s min	Cr	Cor			SBI	INA
20	42	29	30	0.3	40.2	52	3600	0.21	NNF5004-2LSNVY	SL045004ppx
25	47	29	30	0.3	44.6	62	3000	0.23	NNF5005-2LSNVY	SL045005ppx
30	55	33	34	0.3	52.8	75	2600	0.35	NNF5006-2LSNVY	SL045006ppx
35	62	35	36	0.3	66	91.5	2200	0.45	NNF5007-2LSNVY	SL045007ppx
40	68	37	38	0.6	79	116	2000	0.53	NNF5008-2LSNVY	SL045008ppx
45	75	39	40	0.6	95	146	1880	0.68	NNF5009-2LSNVY	SL045009ppx
50	80	39	40	0.6	101	160	1700	0.73	NNF5010-2LSNVY	SL045010ppx
55	90	45	46	0.6	119	193	1500	1.1	NNF5011-2LSNVY	SL045011ppx
60	95	45	46	0.6	123	208	1400	1.2	NNF5012-2LSNVY	SL045012ppx
65	100	45	46	0.6	128	224	1300	1.3	NNF5013-2LSNVY	SL045013ppx
70	110	53	54	0.6	190	325	1200	1.85	NNF5014-2LSNVY	SL045014ppx
75	115	53	54	0.6	201	355	1100	2.0	NNF5015-2LSNVY	SL045015ppx
80	125	59	60	0.6	233	415	1000	2.7	NNF5016-2LSNVY	SL045016ppx
85	130	59	60	0.6	251	430	1000	2.75	NNF5017-2LSNVY	SL045017ppx
90	140	66	67	0.6	297	550	900	3.8	NNF5018-2LSNVY	SL045018ppx

续前表：外圈有止动槽，双密封双列满装圆柱滚子轴承 Double-row complement cylindrical roller bearings with snap groove on the outer ring & double seals

外形尺寸（mm） Dimension					额 定 负 荷 （kN） Rated load		极限 转速 Limiting speed （r/min）*	重量 （kg） Weight	轴承代号 Bearing code	
d	D	C	B	r _s min	Cr	Cor			SBI	INA
95	145	66	67	0.6	303	570	900	3.95	NNF5019-2LSNVY	SL045019PPX
100	150	66	67	0.6	308	570	850	4.05	NNF5020-2LSNVY	SL045020PPX
110	170	79	80	0.6	380	695	750	6.45	NNF5022-2LSNVY	SL045022PPX
120	180	79	80	0.6	402	750	700	6.9	NNF5024-2LSNVY	SL045024PPX
130	200	94	95	0.6	572	1040	630	10.5	NNF5026-2LSNVY	SL045026PPX
140	210	94	95	0.6	594	1120	600	11	NNF5028-2LSNVY	SL045028PPX

150	225	99	100	0.6	693	1290	560	13.5	NNF5030-2LSNVY	SL045030PPX
160	240	108	109	0.6	721	1400	500	16.5	NNF5032-2LSNVY	SL045032PPX
170	260	121	122	0.6	935	1800	480	22.5	NNF5034-2LSNVY	SL045034PPX
180	280	135	136	0.6	1080	2120	450	30.0	NNF5036-2LSNVY	SL045036PPX
190	290	135	136	0.6	1100	2200	430	31.5	NNF5038-2LSNVY	SL045038PPX
200	310	149	150	0.6	1340	2900	400	42.0	NNF5040-2LSNVY	SL045040PPX
220	340	159	160	1	1510	3100	360	53.5	NNF5044-2LSNVY	SL045044PPX
240	360	159	160	1	1570	3350	340	57.5	NNF5048-2LSNVY	SL045048PPX

*表列为油润滑数值，脂润滑为表列数值 50％

The values in the table are for oil lubricant, the grease lubricant values are 50% of these values.

三列满装圆柱滚子轴承 Three-row full complement cylindrical roller bearings

外形尺寸 (mm) Dimension				额定负荷 (kN) Rated load		极限转速 Limiting speed (r/min)*	重量 (kg) Weight	轴承代号 Bearing code	
d	D	B	rsmin	Cr	Cor			SBI	INA
30	47	30	0.3	42	80	6500	0.16	3NCF6906V	SL14906
35	55	32	0.6	53	94	5500	0.28	3NCF6907VX ₂	SL14907
		44	0.6	84	170	5500	0.41	3NCF6907VX ₂₋₁	F-91443
40	62	32	0.6	63	107	5000	0.4	3NCF5908VX ₂	SL14908
45	68	36	0.6	80	160	4600	0.48	3NCF6909VX ₂	SL14909
50	72	36	0.6	84	165	4300	0.52	3NCF6910VX ₂	SL14910
55	80	36	1	97	199	3700	0.71	3NCF5911VX ₂	SL14911
60	85	40	1	102	216	3500	0.73	3NCF6912VX ₂	SL14912
65	90	44	1	124	250	3200	1.08	3NCF6913VX ₂	SL14913
70	100	44	1	142	265	3200	1.10	3NCF5914VX ₂	SL14914
80	110	44	1	150	300	2900	1.25	3NCF5916VX ₂	SL14916
90	125	52	1.1	205	425	2500	1.95	3NCF5918VX ₂	SL14918
100	140	59	1.1	260	550	2200	2.85	3NCF5920VX ₂	SL14920
110	150	59	1.1	270	600	2100	3.10	3NCF5922VX ₂	SL14922
120	165	66	1.1	305	660	1900	4.20	3NCF5924VX ₂	SL14924
130	180	73	1.5	355	770	1700	5.60	3NCF5926VX ₂	SL14926
140	190	73	1.5	370	830	1600	6.00	3NCF5928VX ₂	SL14928
150	210	88	2	560	1230	1500	9.5	3NCF5930VX ₂	SL14930
160	220	88	2	580	1330	1400	10	3NCF5932VX ₂	SL14932
170	230	88	2	600	1390	1300	10.5	3NCF5934VX ₂	SL14934
180	250	101	2	780	1810	1300	15.5	3NCF5936VX ₂	SL14936
190	260	101	2	800	1900	1200	16.2	3NCF5938VX ₂	SL14938
200	280	116	2.1	940	2220	1100	22.4	3NCF5940VX ₂	SL14940

*表列为油润滑数值，脂润滑为表列数值 50%

The values in the table are for oil lubricant, the grease lubricant values are 50% of these values.

双向定位双列满装圆柱滚子轴承

Double-row full complement cylindrical roller bearings with snap groove on the outer ring & double seals

外形尺寸 (mm) Dimension				额定负荷 (kN) Rated load		极限转速 Limiting speed (r/min)	重量 (kg) Weight	轴承代号 Bearing code	
d	D	B	r _s min	Cr	Cor			SBI	INA
60	85	25	1	71	125	4500	0.49	NNC4912V	SL014912
70	100	30	1	108	189	3800	0.78	NNC4914V	SL014914
80	110	30	1	115	211	3400	0.88	NNC 4916V	SL014916
90	125	35	1.1	155	295	3000	1.35	NNC 4918V	SL014918
100	140	40	1.1	196	380	2700	1.95	NNC 4920V	SL014920
110	150	40	1.1	204	410	2500	2.15	NNC 4922V	SL014922
120	165	45	1.1	228	455	2300	2.95	NNC 4924V	SL014924
130	180	50	1.5	265	530	2100	3.95	NNC 4926V	SL014926
140	190	50	1.5	275	570	2000	4.2	NNC 4928V	SL014928
150	190	40	1.1	237	550	1900	2.9	NNC 4830V	SL014830
	210	60	2	415	840	1800	6.65	NNC 4930V	! SL014930
160	200	40	2.1	243	580	1800	3.1	NNC 4832V	SL014832
	220	60	2	435	900	1700	7	NNC 4932V	SL014932
170	215	45	1.1	265	620	1700	4.1	NNC 4834V	SL014834
	230	60	2	445	950	1600	7.1	NNC 4934V	SL014934
180	225	45	1.1	275	660	1600	4.3	NNC 4836V	SL014836
	250	69	2	580	1230	1500	10.8	NNC 4936V	SL014936

续前表：双列满装圆柱滚子轴承 Double-row full complement cylindrical roller bearings

外形尺寸 (mm) Dimension				额定负荷 (kN) Rated load		极限转速 Limiting speed (r/min)*	重量 (Kg) Weight	轴承代号 Bearing code	
d	D	B	r _s min	Cr	Cor			SBI	INA
190	240	50	1.5	315	750	1500	5.65	NNC4838V	SL014838
	260	69	2	590	1290	1400	11.2	NNC 4938V	SL014938
200	250	50	1.5	325	790	1400	5.9	NNC 4840V	SL014840
	280	80	2.1	690	1480	1400	115.8	NNC 4940V	SL014940
220	270	50	1.5	340	870	1300	6.4	NNC 4844V	SL014844
	300	80	2.1	720	1590	1200	17.2	NNC 4944V	SL014944

240	300	60	2	520	1290	1200	10	NNC 4848V	SL014848
	320	80	2.1	750	1740	1200	18.5	NNC 4948V	SL014948
260	320	60	2	540	1400	1100	11	NNC 4852V	SL014852
	360	100	2.1	1120	2500	1000	32	NNC 4952V	SL014952
280	350	69	2	710	1860	1000	16	NNC 4856V	SL014856
	380	100	2.1	1170	2700	1000	34	NNC 4956V	SL014956
300	380	80	2.1	830	2120	950	23	NNC 4860V	SL014860
	420	118	3	1650	3800	900	53	NNC 4960V	SL014960
320	400	80	2.1	860	2280	900	24	NNC 4864V	SL014864
	440	118	3	1720	4100	850	56	NNC 4964V	SL014964
340	420	80	2.1	880	2390	850	25.5	NNC 4868V	SL014868
	460	118	3	1770	4300	800	59	NNC 4968V	SL014968
360	440	80	2.1	910	2550	800	27	NNC 4872V	SL014872
	480	118	3	1810	4500	750	62.1	NNC 4972V	SL014972
380	480	100	2.1	1330	3550	750	45.5	NNC 4876V	SL014876
	520	140	4	2280	5600	700	92.4	NNC 4976V	SL01476
400	500	100	2.1	1360	3700	700	46.5	NNC 4880V	SL014880
	540	140	4	2340	5900	700	96.5	NNC 4980V	SL014980

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