

满装圆柱滚子轴承

Full Complement Cylindrical Roller Bearings



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。连续工作的最小径向负荷 $C/P < 60$ 。

	<p>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。</p> <p>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.</p>

	<p>NNC...V 型双向定位双列满装圆柱滚子轴承, 具有两个外圈, 通过夹持圈联接在一起, 不可分离, 可承受双向的轴向负荷, 用作定位轴承。该型轴承使用时, 对传递轴向力的挡边必须作完全的支撑。对外圈必须作稳固的轴向定位。在安装和拆卸时, 不能直接通过圆柱滚子和套圈挡边来传递; 并要确保联接两个内圈的夹持圈不能承受到安装或拆卸的轴向力。</p> <p>NNC...V type both direction positioning double row bearings, with two outer rings, connected by holding rings, inseparable. It can carry both direction axial load, could</p>

be used as positioning bearings. This bearing must be positioning in axial direction when it be used. Assembling & Dismounting, the force is forbidden from transmitting through the rolling bodies; keeping the holding ring away from the axial force when assembling and dismounting.



NCL •••V 型双列满装圆柱滚子轴承，外圈可以相对于内圈做双位置，参考“S”值。外圈滚道中间放置有止动圈，保证运输与配过程中内外圈不分离。在装配时外圈中间的止动圈不能承受任轴向负荷。

ICL •••V Type double row full-complement cylindrical bearing, outer ring can be made free in axial direction relative to Inner rings, RE. “S” There is a snap ring in middle of the outer ring to ensure the bearings not separate with the inner rings when assembling and transportation. We assembling the snap rings could bear any force in axial direction.



NNC •••V 型双向定位调心双列满装圆柱滚子轴承，具有外球面的表面，可以补偿由于轴倾斜和安装不精确引起的误差。两侧具有卡状环密封结构，滚子由两侧挡圈引导。内圈无挡边，内圈两侧各有一止动圈。该型轴承除承受径向负荷外，还可承受双向的轴向负荷。轴承的内圈和两侧的止推挡圈必须被轴向固定和支承，以保证其使用性能。

NNC •••V Type both direction spherical bearings, with spherical outer diameter, it can repair the clearance of shaft or assembling error. Having metal rings in both sides as seals, rollers move lead by two closing rings, no flange on inner ring. This bearing can carry both radial direction and axial load. For ensure function, bearings inner ring and two closing rings must be fastness.

	<p>UNNCL ...V型调心双列满装圆柱滚子轴承, 具有外球面的表面, 可以补偿由于轴倾斜和安装不精确引起的误差。该型轴承具有较宽的内圈, 内圈无挡边, 可以相对于外圈做双向的轴向位移, 位移量为“S”。</p> <p>UNNCL ...V type spherical double row full complement roller bearings, with spherical outer diameter, it can repair the clearance of shaft or assembling error. This bearing having a higher inner ring and without flange, the inner ring could be moved relative to outer ring, movement capacity re. “S”</p>
	<p>NJL型带圆盘保持架圆柱滚子轴承, 该型轴承具有分离型外圈, 通过夹持圈联接在一起, 不可分离。内圈具有单挡边, 可承受单向的轴向负荷, 可以作单向定位轴承使用。该型轴承具有圆盘型机加工铜保持架, 通过外圈中间的挡边引导滚子和保持架进行旋转。可同时具有高的承载能力以及极限转速。</p> <p>NJL type with disc cage roller bearing, this bearing have separate outer rings, being connected by holding rings, inseparable. Inner ring have a flange, can carry one axial way load, semi-locating. This bearing have disc type machined brass cage, leading by the groove in outer ring rotation. So it has higher load capacity and limit speed.</p>

圆柱滚子轴承的轴向承载能力

Load capacity of axial direction by roller bearings.

当圆柱滚子轴承作为单向定位和双向定位轴承使用时，轴承除承受径向力外还可承受单向或者双向的轴向力。

轴承轴向承载能力的影响因素主要有以下几个方面：

- 1) 套圈挡边和滚动体端面之间接触面的大小；
- 2) 滚动体端面与挡边之间的滑动速度大小；
- 3) 滚动体端面与挡边之间的润滑状况。

Lubrication between rollers head face and flange

轴承在承载轴向力时，其承载挡边在其整个高度上都必须得到支撑。绝对不能超过其极限载荷 F_{max} ，以免在接触面中产生不允许的压力。

When bearing carries axial load, its flange in axial direction must be supported. And the load mustn't larger than limit load F_{max} , in order to avoid unallowed pressure occurs in contact area.

F_a/F_r 的值不应超过 0.4。 F_a/F_r value should not more than 0.4

轴承在没有径向载荷时承受持续轴向载荷是不允许的。

Bearing is not allowed carry axial load barely, without any radial load

轴承容许的轴向载荷 $F_{apm}=k_s \cdot k_b \cdot d_m^{1.5} \cdot n^{-0.6}$ N

Permit axial load $F_{apm}=k_s \cdot k_b \cdot d_m^{1.5} \cdot n^{-0.6}$ N

轴向极限载荷 $F_{amax}=0.075 \cdot k_b \cdot d_m^{2.1}$ N

Axial limit load: $F_{amax}=0.075 \cdot k_b \cdot d_m^{2.1}$ N

k_s :与润滑有关的系数（见表 1）

K_s : the parameter by lubrication (see fig. 1)

k_b :与轴承类型有关的系数（见表 2）

k_b : the parameter by bearings type (see fig. 2)

d_m : 轴承平均直径= $(d+D)/2$ mm

d_m : Average diameter of bearing = $(d+D)/2$ mm

n: Rotation speed 转速 r/min

When roller bearing is used as a single direction or double direction positioning bearing, bearing should take both radial loads and axial one direction or double direction load.

Bearing axial load capacity influenced by following items:

- 1) Contact area size between flange and rollers head face parts
- 2) Speed of movement between rollers head face and flange

表1 fig 1 Lubrication parameter 润滑方法系数 k_s

润 滑 方 法 Lubrication	k_s
散热差, 滴油润滑, 油雾润滑, 低工作粘度 Heat radiating bad, drop lubrication, mist lubrication, low viscosity	7.5~10
有一定的散热, 油池润滑, 喷油润滑, 油流量小 Normal heat radiating, oil basin, oil spray, oil rate low	10~15
散热好, 循环油润滑 (加压式油润滑) Good heat radiating, circulating lubrication(forced feed lubrication)	12~18
散热很好, 循环油润滑并有油冷却装置, 高工作粘度 Perfect heat radiating, circulating lubrication with oil cooling system, higher viscosity.	16~24

表2 fig 2 bearing type parameter 与轴承类型有关的系数 k_B

系 列 Series	k_B
NCF18…V (SL18 18)、NNC48…V (SL01 48)	4.5
NCF29…V (SL18 29)、NNC49…V (SL01 49)	11
NCF30…V (SL18 30)、NNCF50…V (SL18 50)	17
NCF22…V (SL18 22)	20
NJL23 (LSL19 23)	28
NJ23…V (SL19 23)	30

后附参数表中所列极限转速如没有特殊标注均为油润滑时的参数, 当采用脂润滑时, 极限转速为表中所列值的 50%。

In following parameter forms of bearing, the limit speed values are all based on circulating oil lubrication, when bearings using grease lubricating these values should be 50% of them.

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。但订货时在轴承代号后需增加相应的后缀。径向游隙值见表 3

圆柱滚子轴承的径向游隙（GB/T4604-1993、DIN620-4）

表 3 圆柱滚子轴承径向游隙

公称内径 d (mm)		径向内部游隙										um
		C2		CN		C3		C4		C5		
超过	到	min	max	min	max	min	max	min	max	min	max	um
	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	

如需要更高精度的轴承，或其它特殊的要求，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。参见表 4、表 5

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。

表 4 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

表 5 轴公差极限选择原则

工作条件		轴直径 d		公差带	举例
		超过	至		
内圈受点负荷	易于安装	所有轴承直径		g6	在静止轴上的滚轮：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

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.

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
	Variable load	Heavy Shock Load	M7	Eccentric mechanism, Pump
		Normal Load	K7	Compressor
		Light Load	J7	Crank Shaft
Separable or Integrated Housing	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

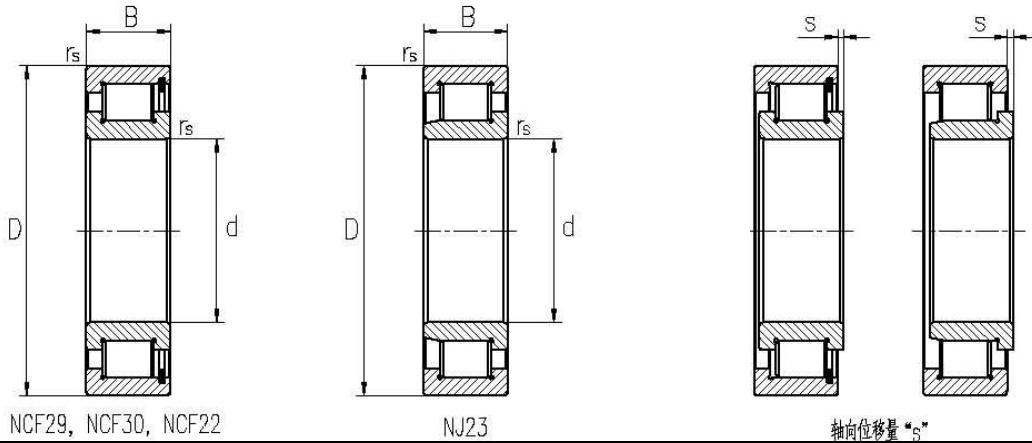
Selecting principle of Shaft Tolerance Limits

Operating condition		Shaft diameter d(mm)		Tolerance	Examples
Point Load on Inner ring	Ease to mount	from	to		
	General application	All		G6	Rolling wheel on static shaft: adjusting pole, inner gear in gearbox, pulley, tension wheel for rolling wheel
				H6	
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



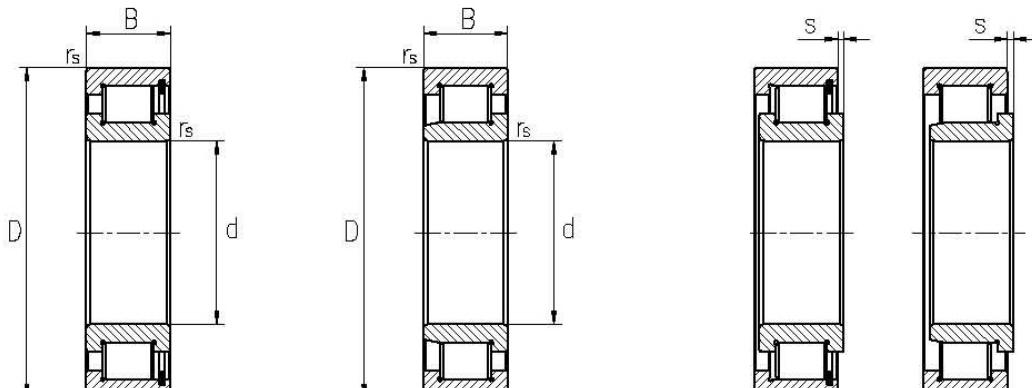
外形尺寸 (mm) Dimension					额定负荷 (kN) Rated load		极限转速 Limiting Speed (r/min)	重量 (Kg) Weight	轴承代号 Bearing code	
d	D	B	r_s min	s	Cr	Cor			SKF	INA
20	42	16	0.6	1.5	27.5	26.5	9000	0.11	NCF 3004V	SL18 3004
	47	18	1	1	41	37.5	7000	0.16	NCF 2204V	SL18 2204
25	47	16	0.6	1.5	31.5	32.5	7500	0.12	NCF 3005V	SL18 3005
	52	18	1	1	46	45	6000	0.18	NCF 2205V	SL18 2205
30	62	24	1.1	2	63	57	4500	0.37	NJ 2305V	SL19 2305
	55	19	1	2	40.5	43	6500	0.2	NCF 3006V	SL18 3006
	62	20	1	1	61	63	5000	0.3	NCF 2206V	SL18 2206
35	72	27	1.1	2	87	85	3800	0.56	NJ 2306V	SL19 2306
	62	20	1	2	49.5	55	5500	0.26	NCF 3007V	SL18 3007
	72	23	1.1	1	76	77	4300	0.44	NCF 2207V	SL18 2207
40	80	31	1.5	2	113	112	3400	0.74	NJ 2307V	SL19 2307
	68	21	1	2	59	68	5000	0.31	NCF 3008V	SL18 3008
	80	23	1.1	1	84	89	3800	0.55	NCF 2208V	SL18 2208
45	90	33	1.5	2	152	155	3000	1.01	NJ 2308V	SL19 2308
	75	23	1	2	63	76	4600	0.4	NCF 3009V	SL18 3009
	85	23	1.1	1	88	96	3600	0.59	NCF 2209V	SL18 2209
50	100	36	1.5	3	162	165	2700	1.37	NJ 2309V	SL19 2309
	80	23	1	2	77	92	4300	0.43	NCF 3010V	SL18 3010
	90	23	1.1	1	95	109	3300	0.64	NCF 2210V	SL18 2210
55	110	40	2	3	205	215	2500	1.81	NJ 2310V	SL19 2310
	90	26	1.1	2	105	134	3700	0.64	NCF 3011V	SL18 3011
	100	25	1.5	1.5	122	145	3000	0.87	NCF 2211V	SL18 2211
60	120	43	2	3	242	255	2300	2.28	NJ 2311V	SL19 2311
	85	16	1	1	54	74	3800	0.29	NCF 2912V	SL18 2912
	95	26	1.1	2	108	141	3500	0.69	NCF 3012V	SL18 3012
65	110	28	1.5	1.5	152	179	2700	1.18	NCF 2212V	SL18 2212
	130	46	2.1	3	260	280	2100	2.88	NJ 2312V	SL19 2312
	90	16	1	1	57	81	3500	0.31	NCF 2913V	SL18 2913
	100	26	1.1	2	113	154	3200	0.73	NCF 3013V	SL18 3013

Full complement cylindrical roller bearings



单列满装圆柱滚子轴承

Single-row full complement cylindrical roller bearings



NCF29, NCF30, NCF22

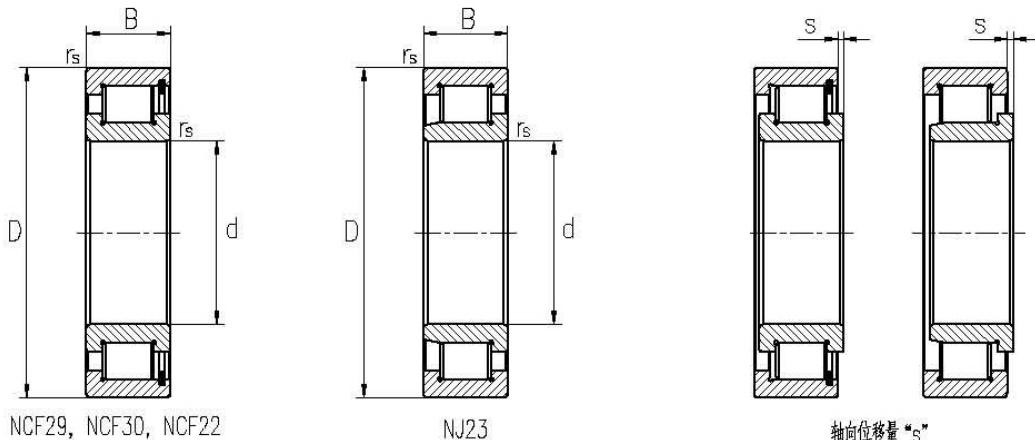
NJ23

轴向位移量“S”

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	s	Cr	Cor			SKF	INA
65	120	31	1.5	1.5	177	213	2500	1.57	NCF 2213V	SL18 2213
	140	48	2.1	3.5	315	355	1900	3.52	NJ 2313V	SL19 2313
70	100	19	1	1	76	108	3200	0.49	NCF 2914V	SL18 2914
	110	30	1.1	3	134	171	3100	1.02	NCF 3014V	SL18 3014
	125	31	1.5	1.5	183	226	2400	1.66	NCF 2214V	SL18 2214
	150	51	2.1	3.5	345	390	1800	4.33	NJ 2314V	SL19 2314
75	105	19	1	1	78	116	3000	0.52	NCF 2915V	SL18 2915
	115	30	1.1	3	141	188	2800	1.06	NCF 3015V	SL18 3015
	130	31	1.5	1.5	190	239	2300	1.75	NCF 2215V	SL18 2215
	160	55	2.1	3.5	410	475	1700	5.30	NJ 2315V	SL19 2315
80	110	19	1	1	81	123	2900	0.55	NCF 2916V	SL18 2916
	125	34	1.1	4	173	224	2600	1.43	NCF 3016V	SL18 3016
	140	33	2	1.5	223	280	2100	2.15	NCF 2216V	SL18 2216
	170	58	2.1	3.5	480	560	1600	6.32	NJ 2316V	SL19 2316
85	120	22	1.1	1	102	155	2700	0.81	NCF 2917V	SL18 2917
	130	34	1.1	4	178	235	2500	1.51	NCF 3017V	SL18 3017
	150	36	2	1.5	255	320	2000	2.74	NCF 2217V	SL18 2217
	180	60	3	4	510	620	1500	7.34	NJ 2317V	SL19 2317
90	125	22	1.1	1	106	165	2500	0.84	NCF 2918V	SL18 2918
	140	37	1.5	4	207	280	2300	1.97	NCF 3018V	SL18 3018
	160	40	2	2.5	285	365	1900	3.48	NCF 2218V	SL18 2218
	190	64	3	4	560	660	1400	8.83	NJ 2318V	SL19 2318
95	130	22	1.1	1	114	172	2400	0.86	NCF 2919V	SL18 2919
	170	43	2.1	2.5	335	430	1700	4.17	NCF 2219V	SL18 2219
	200	67	3	4	580	720	1350	10.2	NJ 2319V	SL19 2319
100	140	24	1.1	1.5	132	199	2300	1.14	NCF 2920V	SL18 2920
	150	37	1.5	4	218	305	2200	2.15	NCF 3020V	SL18 3020
	180	46	2.1	2.5	390	520	1600	5.13	NCF 2220V	SL18 2220
	215	73	3	4	710	860	1300	13	NJ 2320V	SL19 2320
110	150	24	1.1	1.5	137	213	2100	1.23	NCF 2922V	SL18 2922

单列满装圆柱滚子轴承

Single-row full complement cylindrical roller bearings



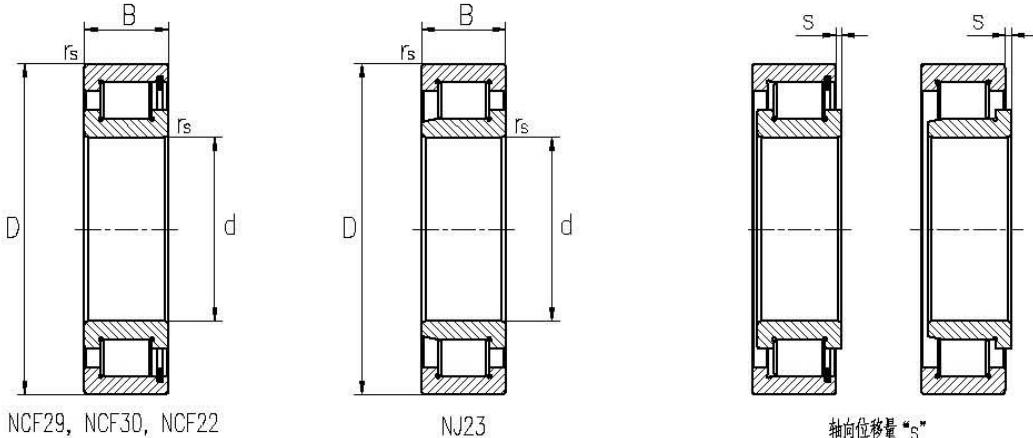
外形尺寸 (mm) Dimension					额定负荷 (kN) Rated load		极限转速 Limiting Speed (r/min)	重量 (Kg) Weight	轴承代号 Bearing code	
d	D	B	rs min	s	Cr	Cor			SKF	INA
110	170	45	2	5.5	285	395	2000	3.5	NCF3022V	SL18 3022
	200	53	2.1	4	455	590	1500	7.24	NCF 2222V	SL18 2222
	240	80	3	5	840	970	1150	17	NJ 2322V	SL19 2322
120	165	27	1.1	1.5	176	285	1900	1.73	NCF 2924V	SL18 2924
	180	46	2	5.5	300	435	1800	3.8	NCF 3024V	SL18 3024
	215	58	2.1	4	530	730	1400	9.08	NCF 2224V	SL18 2224
	260	86	3	5	990	1220	1050	22.3	NJ 2324V	SL19 2324
130	180	30	1.5	2	210	350	1800	2.33	NCF 2926V	SL18 2926
	200	52	2	5.5	430	610	1700	5.65	NCF 3026V	SL18 3026
	230	64	3	5	630	860	1300	11.25	NCF 2226V	SL18 2226
140	190	30	1.5	2	228	375	1600	2.42	NCF 2928V	SL18 2928
	210	53	2	5.5	455	670	1500	6.04	NCF 3028V	SL18 3028
	250	68	3	5	720	1020	1200	14.47	NCF 2228V	SL18 2228
150	210	36	2	2.5	305	490	1500	3.77	NCF 2930V	SL18 2930
	225	56	2.1	7	475	700	1500	7.33	NCF 3030V	SL18 3030
	270	73	3	6	830	1180	1100	18.43	NCF 2230V	SL18 2230
160	220	36	2	2.5	320	520	1400	4	NCF 2932V	SL18 2932
	240	60	2.1	7	540	810	1400	8.8	NCF 3032V	SL18 3032
	290	80	3	6	1020	1460	1000	23	NCF 2232V	SL18 2232
170	230	36	2	2.5	330	560	1300	4.3	NCF 2934V	SL18 2934
	260	67	2.1	7	710	1070	1300	12.2	NCF 3034V	SL18 3034
	310	86	4	7	1140	1660	950	28.65	NCF 2234V	SL18 2234
180	250	42	2	2.5	410	690	1300	6.2	NCF 2936V	SL18 2936
	280	74	2.1	7	820	1260	1200	16.1	NCF 3036V	SL18 3036
	320	86	4	7	1180	1760	900	29.8	NCF 2236V	SL18 2236
190	260	42	2	2.5	455	790	1200	6.5	NCF 2938V	SL18 2938
	290	75	2.1	9	840	1320	1100	17	NCF 3038V	SL18 3038
	340	92	4	9	1300	1900	850	35.65	NCF 2238V	SL18 2238

Full complement cylindrical roller bearings



单列满装圆柱滚子轴承

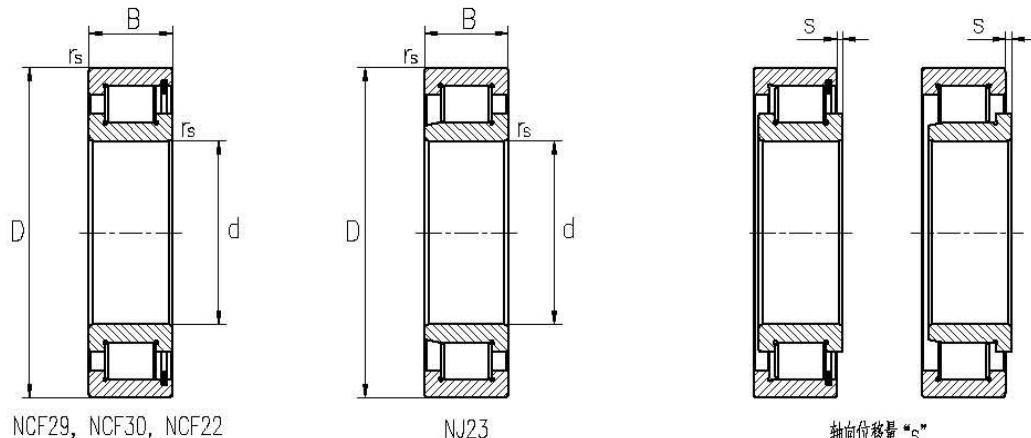
Single-row full complement cylindrical roller bearings



外形尺寸 (mm) Dimension					额定负荷 (kN) Rated load		极限转速 Limiting Speed (r/min)	重量 (Kg) Weight	轴承代号 Bearing code	
d	D	B	r _s min	s	Cr	Cor			SKF	INA
200	250	24	1.5	2	178	320	1200	2.57	NCF 1840V	SL18 1840
	280	48	2.1	3	550	940	1100	9.1	NCF 2940V	SL18 2940
	310	82	2.1	9	960	1530	1100	21.8	NCF 3040V	SL18 3040
	360	98	4	9	1420	2040	850	43.12	NCF 2240V	SL18 2240
220	270	24	1.5	2	187	350	1100	2.8	NCF 1844V	SL18 1844
	300	48	2.1	3	570	1040	1000	9.9	NCF 2944V	SL18 2944
	340	90	3	9	1150	1810	1000	28.4	NCF 3044V	SL18 3044
240	300	28	2	3	212	405	1000	4.4	NCF 1848V	SL18 1848
	320	48	2.1	3	600	1130	950	10.6	NCF 2948V	SL18 2948
	360	92	3	11	1210	1990	900	30.9	NCF 3048V	SL18 3048
260	320	28	2	3	222	440	950	4.71	NCF 1852V	SL18 1852
260	360	60	2.1	3.5	790	1460	900	18.5	NCF 2952V	SL18 2952
	400	104	4	11	1620	2550	800	44.5	NCF 3052V	SL18 3052
280	350	33	2	3	305	600	850	7	NCF 1856V	SL18 1856
	380	60	2.1	3.5	920	1740	800	19.7	NCF 2956V	SL18 2956
	420	106	4	11	1660	2700	800	48	NCF 3056V	SL18 3056
300	380	38	2.1	3.5	375	730	800	10	NCF 1860V	SL18 1860
	420	72	3	5	1180	2230	750	31.2	NCF 2960V	SL18 2960
	460	118	4	14	2040	3350	700	66.6	NCF 3060V	SL18 3060
320	400	38	2.1	4.5	385	780	750	10.6	NCF 1864V	SL18 1864
	440	72	3	5	1220	2360	700	32.9	NCF 2964V	SL18 2964
	480	121	4	14	2090	3500	650	71.7	NCF 3064V	SL18 3064
340	420	38	2.1	4.5	395	820	700	11.2	NCF 1868V	SL18 1868
	460	72	3	5	1260	2500	700	34.7	NCF 2968V	SL18 2968
	520	133	5	16	2490	4150	600	95.8	NCF 3068V	SL18 3068
360	440	38	2.1	4.5	410	870	650	11.7	NCF 1872V	SL18 1872
	480	72	3	5	1290	2650	650	36.4	NCF 2972V	SL18 2972
	540	134	5	16	2550	4350	550	101	NCF 3072V	SL18 3072

单列满装圆柱滚子轴承

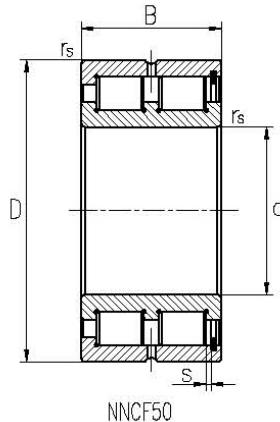
Single-row full complement cylindrical roller bearings



外形尺寸 (mm) Dimension					额定负荷 (kN) Rated load		极限转速 Limiting Speed (r/min)	重量 (Kg) Weight	轴承代号 Bearing code	
d	D	B	r _s min	s	Cr	Cor			SKF	INA
380	480	46	2.1	6	570	1150	600	19.2	NCF 1876V	SL18 1876
	520	82	4	5	1670	3300	600	52.1	NCF 2976V	SL18 2976
	560	135	5	16	2650	4550	550	106	NCF 3076V	SL18 3076
400	500	46	2.1	6	590	1220	600	20	NCF 1880V	SL18 1880
	540	82	4	5	1720	3500	550	54.3	NCF 2980V	SL18 2980
	600	148	5	18	3100	5500	500	140	NCF 3080V	SL18 3080
420	520	46	2.1	6	600	1260	550	20.9	NCF 1884V	SL18 1884
	560	82	4	5	1750	3600	550	56.9	NCF 2984V	SL18 2984
440	540	46	2.1	6	610	1320	550	21.8	NCF 1888V	SL18 1888
	600	95	4	7	2130	4200	500	78.1	NCF 2988V	SL18 2988
460	580	56	3	7	790	1660	500	33.9	NCF 1892V	SL18 1892
	620	95	4	7	2160	4350	500	81.1	NCF 2992V	SL18 2992
480	600	56	3	7	800	1720	500	35.2	NCF 1896V	SL18 1896
	650	100	5	7	2430	4900	480	94.7	NCF 2996V	SL18 2996
500	620	56	3	7	820	1810	480	36.5	NCF 18/500V	SL18 18/500
	670	100	5	7	2460	5100	460	98.3	NCF 29/500V	SL18 29/500

双列满装圆柱滚子轴承

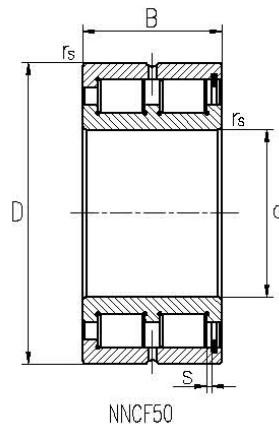
Double-row full complement cylindrical roller bearings



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	s	Cr	Cor			SKF	INA
20	42	30	0.6	1	47.5	53	9000	0.2	NNCF 5004V	SL18 5004
25	47	30	0.6	1	54	65	7500	0.23	NNCF 5005V	SL18 5005
30	55	34	1	1.5	70	86	6500	0.35	NNCF 5006V	SL18 5006
35	62	36	1	1.5	85	109	5500	0.46	NNCF 5007V	SL18 5007
40	68	38	1	1.5	101	136	5000	0.56	NNCF 5008V	SL18 5008
45	75	40	1	1.5	108	151	4600	0.71	NNCF 5009V	SL18 5009
50	80	40	1	1.5	131	184	4300	0.76	NNCF 5010V	SL18 5010
55	90	46	1.1	1.5	179	270	3700	1.16	NNCF 5011V	SL18 5011
60	85	25	1	0.7	67	115	3700	0.48	NNCF 4912V	SL18 4912
	95	46	1.1	1.5	184	280	3500	1.24	NNCF 5012V	SL18 5012
65	100	46	1.1	1.5	194	310	3200	1.32	NNCF 5013V	SL18 5013
70	100	30	1	0.7	103	178	3200	0.78	NNCF 4914V	SL18 4914
	110	54	1.1	3	229	340	3100	1.85	NNCF 5014V	SL18 5014
75	115	54	1.1	3	242	375	2800	1.93	NNCF 5015V	SL18 5015
80	110	30	1	0.7	109	199	2900	0.88	NNCF 4916V	SL18 4916
	125	60	1.1	3.5	295	450	2600	2.59	NNCF 5016V	SL18 5016
85	130	60	1.1	3.5	305	470	2500	2.72	NNCF 5017V	SL18 5007
90	125	35	1.1	0.7	149	280	2500	1.35	NNCF 4918V	SL18 4918
	140	67	1.5	4	355	560	2300	3.62	NNCF 5018V	SL18 5018
100	140	40	1.1	0.7	191	370	2200	1.95	NNCF 4920V	SL18 4920
	150	67	1.5	4	375	610	2200	3.94	NNCF 5020V	SL18 5020
110	150	40	1.1	0.7	198	400	2100	2.15	NNCF 4922V	SL18 4922
	170	80	2	5	490	790	2000	6.32	NNCF 5022V	SL18 5022
120	165	45	1.1	2	222	440	1900	2.95	NNCF 4924V	SL18 4924
	180	80	2	5	520	870	1800	6.77	NNCF 5024V	SL18 5024
130	180	50	1.5	2	260	510	1700	3.95	NNCF 4926V	SL18 4926
	200	95	2	5	740	1220	1700	10.2	NNCF 5026V	SL18 5026

双列满装圆柱滚子轴承

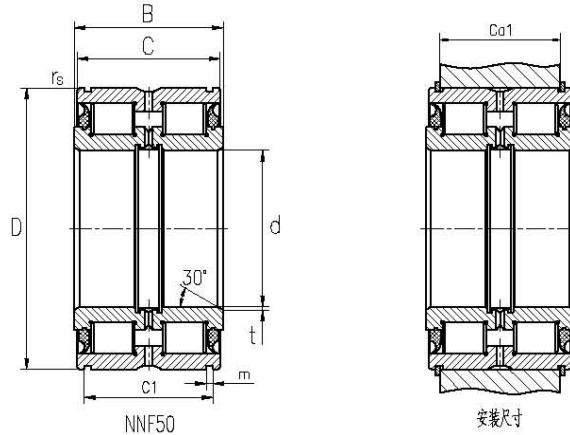
Double-row full complement cylindrical roller bearings



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	s	Cr	Cor			SKF	INA
140	190	50	1.5	2	270	550	1600	4.2	NNCF 4928V	SL18 4928
	210	95	2	5	780	1340	1500	11.1	NNCF 5028V	SL18 5028
150	210	60	2	2	410	820	1500	6.65	NNCF 4930V	SL18 4930
	225	100	2.1	6	810	1400	1500	13.3	NNCF 5030V	SL18 5030
160	220	60	2	2	425	880	1400	7	NNCF 4932V	SL18 4932
170	230	60	2	2	435	930	1300	7.35	NNCF 4934V	SL18 4934
180	250	69	2	3	570	1200	1300	10.8	NNCF 4936V	SL18 4936
190	260	69	2	3	580	1270	1200	11.2	NNCF 4938V	SL18 4938
200	280	80	2.1	4	690	1480	1100	15.8	NNCF 4940V	SL18 4940
220	300	80	2.1	4	720	1590	1000	17.2	NNCF 4944V	SL18 4944
240	320	80	2.1	4	740	1710	950	18.5	NNCF 4948V	SL18 4948
260	360	100	2.1	4	1110	2490	900	32	NNCF 4952V	SL18 4952
280	380	100	2.1	4	1150	2700	800	34	NNCF 4956V	SL18 4956
300	420	118	3	4	1650	3800	750	53	NNCF 4960V	SL18 4960
320	440	118	3	4	1720	4100	700	56	NNCF 4964V	SL18 4964
340	460	118	3	4	1770	4300	650	59	NNCF 4968V	SL18 4968
360	480	118	3	4	1810	4500	650	62.1	NNCF 4972V	SL18 4972
380	520	140	4	5	2270	5600	600	92.4	NNCF 4976V	SL18 4976
400	540	140	4	5	2330	5900	550	96.5	NNCF 4980V	SL18 4980

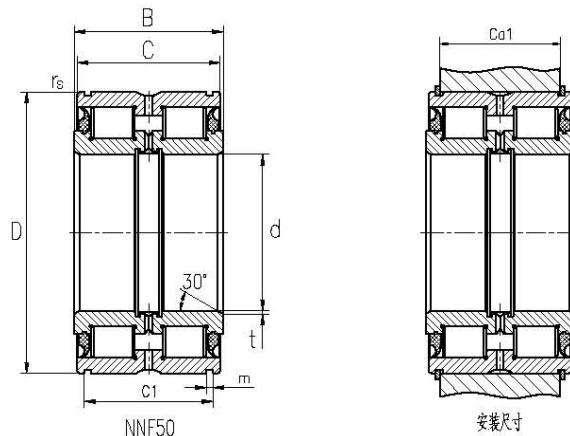
外圈有止动槽，双密封双列满装圆柱滚子轴承

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



外形尺寸 (mm) Dimension									轴承代号 Bearing code	
d	D	C	B	C1	D1	m	t	r _s min	SKF	INA
20	42	29	30	24.7	39.8	1.8	0.5	0.3	NNF 5004-2LSNVY	SL04 5004ppx
25	47	29	30	24.7	44.8	1.8	0.5	0.3	NNF 5005-2LSNVY	SL04 5005ppx
30	55	33	34	28.2	52.8	2.1	0.5	0.3	NNF 5006-2LSNVY	SL04 5006ppx
35	62	35	36	30.2	59.8	2.1	0.5	0.3	NNF 5007-2LSNVY	SL04 5007ppx
40	68	37	38	32.2	65.8	2.7	0.8	0.6	NNF 5008-2LSNVY	SL04 5008ppx
45	75	39	40	34.2	72.8	2.7	0.8	0.6	NNF 5009-2LSNVY	SL04 5009ppx
50	80	39	40	34.2	77.8	2.7	0.8	0.6	NNF 5010-2LSNVY	SL04 5010ppx
55	90	45	46	40.2	87.4	3.2	1	0.6	NNF 5011-2LSNVY	SL04 5011ppx
60	95	45	46	40.2	92.4	3.2	1	0.6	NNF 5012-2LSNVY	SL04 5012ppx
65	100	45	46	40.2	97.4	3.2	1	0.6	NNF 5013-2LSNVY	SL04 5013ppx
70	110	53	54	48.2	107.1	4.2	1	0.6	NNF 5014-2LSNVY	SL04 5014ppx
75	115	53	54	48.2	112.1	4.2	1	0.6	NNF 5015-2LSNVY	SL04 5015ppx
80	125	59	60	54.2	122.1	4.2	1.5	0.6	NNF 5016-2LSNVY	SL04 5016ppx
85	130	59	60	54.2	127.1	4.2	1.5	0.6	NNF 5017-2LSNVY	SL04 5017ppx
90	140	66	67	59.2	137	4.2	1.5	0.6	NNF 5018-2LSNVY	SL04 5018ppx
95	145	66	67	59.2	142	4.2	1.5	0.6	NNF 5019-2LSNVY	SL04 5019ppx
100	150	66	67	59.2	147	4.2	1.5	0.6	NNF 5020-2LSNVY	SL04 5020ppx
110	170	79	80	70.2	167	4.2	1.8	0.6	NNF 5022-2LSNVY	SL04 5022ppx
120	180	79	80	71.2	176	4.2	1.8	0.6	NNF 5024-2LSNVY	SL04 5024ppx
130	200	94	95	83.2	196	4.2	1.8	0.6	NNF 5026-2LSNVY	SL04 5026ppx
130	190	79	80	71.2	186	4.2	1.8	0.6	NNF 130-2LSNVY	SL04 130ppx
140	210	94	95	83.2	206	5.2	1.8	0.6	NNF 5028-2LSNVY	SL04 5028ppx
140	200	79	80	71.2	196	4.2	1.8	0.6	NNF 140-2LSNVY	SL04 140ppx

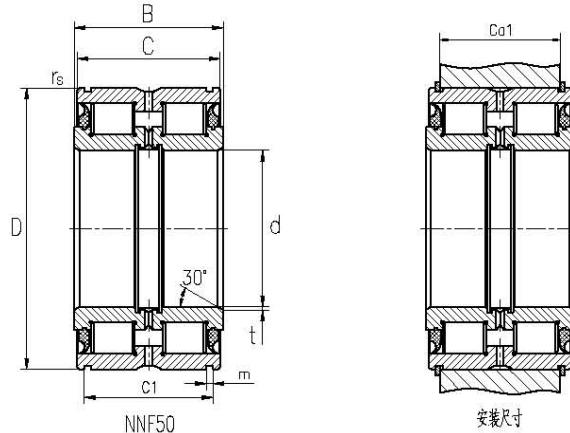
外圈有止动槽，双密封双列满装圆柱滚子轴承

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


额定负荷 (kN) Rated load		安装尺寸 Mounting dimensions		极限转速 (r/min)* Limiting speed	重量 (Kg) Weight	轴承代号 Bearing code	
Cr	Cor	Ca1	止动环			SKF	I NA
41.5	50	21.5	WRE 42	4000	0.2	NNF 5004-2LSNVY	SL04 5004PPX
45.5	59	21.5	WRE 47	3600	0.23	NNF 5005-2LSNVY	SL04 5005PPX
52	69	25	WRE 55	3000	0.35	NNF 5006-2LSNVY	SL04 5006PPX
65	90	27	WRE 62	2600	0.45	NNF 5007-2LSNVY	SL04 5007PPX
82	113	28	WRE 68	2400	0.53	NNF 5008-2LSNVY	SL04 5008PPX
98	141	30	WRE 75	2200	0.68	NNF 5009-2LSNVY	SL04 5009PPX
103	154	30	WRE 80	2000	0.73	NNF 5010-2LSNVY	SL04 5010PPX
118	180	35	WRE 90	1800	1.1	NNF 5011-2LSNVY	SL04 5011PPX
123	195	35	WRE 95	1700	1.2	NNF 5012-2LSNVY	SL04 5012PPX
128	209	35	WRE 100	1600	1.3	NNF 5013-2LSNVY	SL04 5013PPX
172	270	43	WRE 110	1400	1.85	NNF 5014-2LSNVY	SL04 5014PPX
198	305	43	WRE 115	1400	2.0	NNF 5015-2LSNVY	SL04 5015PPX
206	335	49	WRE 125	1300	2.7	NNF 5016-2LSNVY	SL04 5016PPX
215	360	49	WRE 130	1200	2.75	NNF 5017-2LSNVY	SL04 5017PPX
310	520	54	WRE 140	1100	3.8	NNF 5018-2LSNVY	SL04 5018PPX
315	540	54	WRE 145	1100	3.95	NNF 5019-2LSNVY	SL04 5019PPX
330	550	54	WRE 150	1000	4.05	NNF 5020-2LSNVY	SL04 5020PPX
395	680	65	WRE 170	900	6.45	NNF 5022-2LSNVY	SL04 5022PPX
410	740	65	WRE 180	900	6.9	NNF 5024-2LSNVY	SL04 5024PPX
550	980	77	WRE 200	800	10.5	NNF 5026-2LSNVY	SL04 5026PPX
425	790	65	WRE 190	800	7.8	NNF 130-2LSNVY	SL04 130PPX
630	1120	77	WRE 210	750	11	NNF 5028-2LSNVY	SL04 5028PPX
445	840	65	WRE 200	750	10.7	NNF 140-2LSNVY	SL04 140PPX

外圈有止动槽，双密封双列满装圆柱滚子轴承

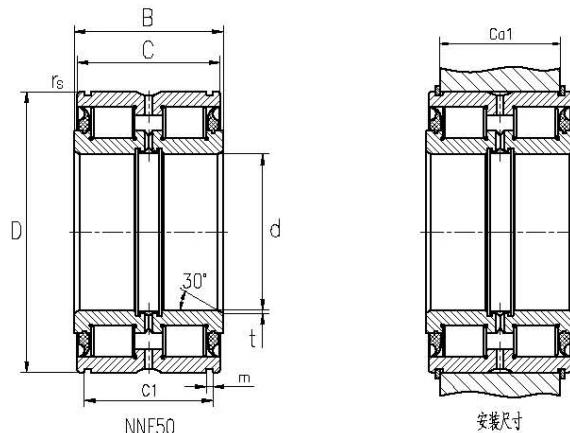
Double-row full complement cylindrical roller bearings with snap groove on the outer ring & double seals.



外形尺寸 (mm) Dimension									轴承代号 Bearing code	
d	D	C	B	C1	D1	m	t	rs,min	SKF	INA
150	225	99	100	87.2	221	5.2	2	0.6	NNF 5030-2LSNVY	SL04 5030PPX
150	210	79	80	71.2	206	5.2	1.8	0.6	NNF 150-2LSNVY	SL04 150PPX
160	240	108	109	95.2	236	5.2	2	0.6	NNF 5032-2LSNVY	SL04 5032PPX
160	220	79	80	71.2	216	5.2	1.8	0.6	NNF 160-2LSNVY	SL04 160PPX
170	260	121	122	107.2	254	5.2	2	0.6	NNF 5034-2LSNVY	SL04 5034PPX
170	230	79	80	71.2	226	5.2	1.8	0.6	NNF 170-2LSNVY	SL04 170PPX
180	280	135	136	118.2	274	5.2	2	0.6	NNF 5036-2LSNVY	SL04 5036PPX
180	240	79	80	71.2	236	5.2	1.8	0.6	NNF 180-2LSNVY	SL04 180PPX
190	290	135	136	118.2	284	5.2	2	0.6	NNF 5038-2LSNVY	SL04 5038PPX
190	260	79	80	73.2	254	5.2	1.8	0.6	NNF 190-2LSNVY	SL04 190PPX
200	310	149	150	128.2	304	6.3	2	0.6	NNF 5040-2LSNVY	SL04 5040PPX
200	270	79	80	73.2	264	5.2	1.8	0.6	NNF 200-2LSNVY	SL04 200PPX
220	340	159	160	138.2	334	6.3	2	1	NNF 5044-2LSNVY	SL04 5044PPX
220	300	94	95	83.2	294	5.2	2	1	NNF 220-2LSNVY	SL04 220PPX
240	360	159	160	138.2	354	6.3	2	1	NNF 5048-2LSNVY	SL04 5048PPX
240	320	94	95	83.2	314	6.3	2	1	NNF 240-2LSNVY	SL04 240PPX
260	400	189	190	162.2	394	6.3	3	1.1	NNF 5052-2LSNVY	SL04 5052PPX
260	340	94	95	83.2	334	6.3	3	1	NNF 260-2LSNVY	SL04 260PPX
280	420	189	190	163.2	413	7.3	3	1.1	NNF 5056-2LSNVY	SL04 5056PPX
280	360	94	95	83.2	354	6.3	3	1	NNF 280-2LSNVY	SL04 280PPX
300	460	216	218	185.2	453	7.3	3	1.1	NNF 5060-2LSNVY	SL04 5060PPX
300	380	94	95	83.2	374	6.3	3	1	NNF 5060-2LSNVY	SL04 300PPX

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.

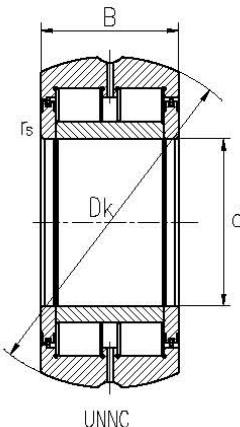


额定负荷 (kN) Rated load		安装尺寸 Mounting dimensions		极限转速 (r/min)* Limiting speed	重量 (Kg) Weight	轴承代号 Bearing code	
Cr	Cor	Ca1	止动环			SKF	I NA
710	1270	81	WRE 225	700	13.5	NNF 5030-2LSNVY	SL04 5030PPX
465	920	65	WRE 210	700	8.2	NNF 150-2LSNVY	SL04 150PPX
740	1370	89	WRE 240	650	16.5	NNF 5032-2LSNVY	SL04 5032PPX
480	970	65	WRE 220	700	8.8	NNF 160-2LSNVY	SL04 160PPX
960	1760	99	WRE 260	600	22.5	NNF 5034-2LSNVY	SL04 5034PPX
490	1030	65	WRE 230	650	8.8	NNF 170-2LSNVY	SL04 170PPX
1140	2140	110	WRE 280	550	30.0	NNF 5036-2LSNVY	SL04 5036PPX
500	1080	65	WRE 240	600	9.8	NNF 180-2LSNVY	SL04 180PPX
1170	2230	110	WRE 290	550	31.5	NNF 5038-2LSNVY	SL04 5038PPX
520	1160	65	WRE 260	550	12.7	NNF 190-2LSNVY	SL04 190PPX
1370	2650	120	WRE 310	500	42.0	NNF 5040-2LSNVY	SL04 5040PPX
540	1210	65	WRE 270	550	13.2	NNF 200-2LSNVY	SL04 200PPX
1580	3100	130	WRE 340	480	53.5	NNF 5044-2LSNVY	SL04 5044PPX
720	1590	75	WRE 300	480	19.5	NNF 220-2LSNVY	SL04 220PPX
1650	3350	130	WRE 360	440	57.5	NNF 5048-2LSNVY	SL04 5048PPX
740	1710	75	WRE 320	480	21	NNF 240-2LSNVY	SL04 240PPX
2380	4700	154	WRE 400	400	84.6	NNF 5052-2LSNVY	SL04 5052PPX
850	2010	75	WRE 340	440	22.5	NNF 260-2LSNVY	SL04 260PPX
2600	5200	154	WRE 420	380	90	NNF 5056-2LSNVY	SL04 5056PPX
870	2130	75	WRE 360	420	24	NNF 280-2LSNVY	SL04 280PPX
3000	5900	176	WRE 460	340	126	NNF 5060-2LSNVY	SL04 5060PPX
900	2260	75	WRE 380	380	25.5	NNF 5060-2LSNVY	SL04 300PPX

*表列为脂润滑数值

外球面双列满装圆柱滚子轴承（定位型）

Spherical double row full complement roller bearing (positioning type)



UNNC

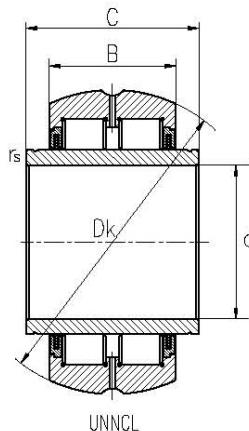
外形尺寸 (mm) Dimension				额定负荷 (kN) Rated load		极限转速 (r/min)* Limiting speed	重量 (Kg) Weight	轴承代号 Bearing code	
d	Dk	B	rs,min	Cr	Cor			SKF	INA
80	120	45	1.1	172	300	1300	1.7	UNNC 016V	SL05 016E
90	140	50	1.5	219	370	1200	2.8	UNNC 018V	SL05 018E
100	150	55	1.5	280	490	1100	3.3	UNNC 020V	SL05 020E
110	170	60	2	340	620	950	4.9	UNNC 022V	SL05 022E
120	180	60	2	350	660	850	5.2	UNNC 024V	SL05 024E
130	200	65	2	435	810	800	7.4	UNNC 026V	SL05 026E
140	210	70	2	495	930	750	8.2	UNNC 028V	SL05 028E
150	225	75	2.1	540	1020	700	10	UNNC 030V	SL05 030E
160	240	90	2.1	660	1260	650	13.7	UNNC 032V	SL05 032E
170	260	95	2.1	760	1420	600	17.4	UNNC 034V	SL05 034E
180	280	100	2.1	790	1520	550	22.1	UNNC 036V	SL05 036E
190	290	110	2.1	950	1850	550	25.1	UNNC 038V	SL05 038E
200	310	115	2.1	1070	2060	500	30.5	UNNC 040V	SL05 040E
220	340	125	3	1260	2440	460	40	UNNC 044V	SL05 044E
240	360	130	3	1310	2600	430	44	UNNC 048V	SL05 048E

*:表列为脂润滑的极限转速

It's the limit speed with grease lubrication

外球面双列满装圆柱滚子轴承 (游动型)

Spherical double row full complement roller bearing (floating type)



UNNCL

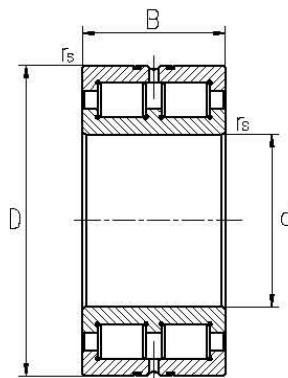
外形尺寸 (mm) Dimension						额定负荷 (kN) Rated load		极限转速 (r/min)* Limiting speed	重量 (Kg) Weight	轴承代号 Bearing code	
d	Dk	B	C	rs min	s	Cr	Cor			SKF	INA
80	120	55	45	1.1	2.5	172	300	1300	1.8	UNNCL 016V	SL06 016E
90	140	60	50	1.5	2.5	219	370	1200	2.95	UNNCL 018V	SL06 018E
100	150	65	55	1.5	2.5	280	490	1100	3.45	UNNCL 020V	SL06 020E
110	170	75	60	2	5	340	620	950	5.2	UNNCL 022V	SL06 022E
120	180	75	60	2	5	350	660	850	5.5	UNNCL 024V	SL06 024E
130	200	80	65	2	5	435	810	800	7.8	UNNCL 026V	SL06 026E
140	210	85	70	2	5	495	930	750	8.55	UNNCL 028V	SL06 028E
150	225	90	75	2.1	5	540	1020	700	10.5	UNNCL 030V	SL06 030E
160	240	110	90	2.1	7.5	660	1260	650	14.3	UNNCL 032V	SL06 032E
170	260	115	95	2.1	7.5	760	1420	600	18.1	UNNCL 034V	SL06 034E
180	280	120	100	2.1	7.5	790	1520	550	23	UNNCL 036V	SL06 036E
190	290	135	110	2.1	10	950	1850	550	26.5	UNNCL 038V	SL06 038E
200	310	140	115	2.1	10	1070	2060	500	32	UNNCL 040V	SL06 040E
220	340	150	125	3	10	1260	2440	460	42	UNNCL 044V	SL06 044E
240	360	155	130	3	10	1310	2600	430	46	UNNCL 048V	SL06 048E

*表列为脂润滑的极限转速

It's the limit speed with grease lubrication

双向定位双列满装圆柱滚子轴承

Both directions positioning double row full complement cylindrical roller bearings

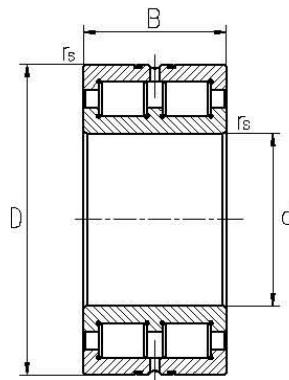


NNC48, NNC49

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			SKF	INA
60	85	25	1	71	125	4500	0.49	NNC 4912V	SL01 4912
70	100	30	1	108	189	3800	0.78	NNC 4914V	SL01 4914
80	110	30	1	115	211	3400	0.88	NNC 4916V	SL01 4916
90	125	35	1.1	155	295	3000	1.35	NNC 4918V	SL01 4918
100	140	40	1.1	196	380	2700	1.95	NNC 4920V	SL01 4920
110	150	40	1.1	204	410	2500	2.15	NNC 4922V	SL01 4922
120	165	45	1.1	228	455	2300	2.95	NNC 4924V	SL01 4924
130	180	50	1.5	265	530	2100	3.95	NNC 4926V	SL01 4926
140	190	50	1.5	275	570	2000	4.2	NNC 4928V	SL01 4928
150	190	40	1.1	237	550	1900	2.9	NNC 4830V	SL01 4830
	210	60	2	415	840	1800	6.65	NNC 4930V	SL01 4930
160	200	40	2.1	243	580	1800	3.1	NNC 4832V	SL01 4832
	220	60	2	435	900	1700	7	NNC 4932V	SL01 4932
170	215	45	1.1	265	620	1700	4.1	NNC 4834V	SL01 4834
	230	60	2	445	950	1600	7.35	NNC 4934V	SL01 4934
180	225	45	1.1	275	660	1600	4.3	NNC 4836V	SL01 4836
	250	69	2	580	1230	1500	10.8	NNC 4936V	SL01 4936
190	240	50	1.5	315	750	1500	5.65	NNC 4838V	SL01 4838
	260	69	2	590	1290	1400	11.2	NNC 4938V	SL01 4938
200	250	50	1.5	325	790	1400	5.9	NNC 4840V	SL01 4840
	280	80	2.1	690	1480	1400	15.8	NNC 4940V	SL01 4940
220	270	50	1.5	340	870	1300	6.4	NNC 4844V	SL01 4844
	300	80	2.1	720	1590	1200	17.2	NNC 4944V	SL01 4944
240	300	60	2	520	1290	1200	10	NNC 4848V	SL01 4848
	320	80	2.1	750	1740	1200	18.5	NNC 4948V	SL01 4948

双向定位双列满装圆柱滚子轴承

Both directions positioning double row full complement cylindrical roller bearing

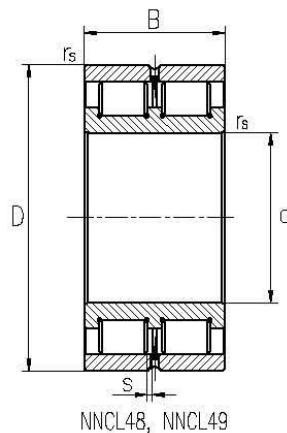


NNC48, NNC49

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			SKF	INA
260	320	60	2	540	1400	1100	11	NNC 4852V	SL01 4852
	360	100	2.1	1120	2500	1000	32	NNC 4952V	SL01 4952
280	350	69	2	710	1860	1000	16	NNC 4856V	SL01 4856
	380	100	2.1	1170	2700	1000	34	NNC 4956V	SL01 4956
300	380	80	2.1	830	2120	950	23	NNC 4860V	SL01 4860
	420	118	3	1650	3800	900	53	NNC 4960V	SL01 4960
320	400	80	2.1	860	2280	900	24	NNC 4864V	SL01 4864
	440	118	3	1720	4100	850	56	NNC 4964V	SL01 4964
340	420	80	2.1	880	2390	850	25.5	NNC 4868V	SL01 4868
	460	118	3	1770	4300	800	59	NNC 4968V	SL01 4968
360	440	80	2.1	910	2550	800	27	NNC 4872V	SL01 4872
	480	118	3	1810	4500	750	62.1	NNC 4972V	SL01 4972
380	480	100	2.1	1330	3550	750	45.5	NNC 4876V	SL01 4876
	520	140	4	2280	5600	700	92.4	NNC 4976V	SL01 4976
400	500	100	2.1	1360	3700	700	46.5	NNC 4880V	SL01 4880
	540	140	4	2340	5900	700	96.5	NNC 4980V	SL01 4980

双向游动双列满装圆柱滚子轴承

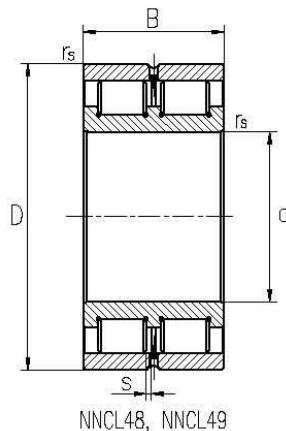
Both directions positioning double row full complement cylindrical roller bearing



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	s	Cr	Cor			SKF	INA
60	85	25	1	1	71	125	4500	0.47	NNCL 4912V	SL02 4912
70	100	30	1	1	108	189	3800	0.75	NNCL 4914V	SL02 4914
80	110	30	1	1	115	211	3400	0.85	NNCL 4916V	SL02 4916
90	125	35	1.1	1.5	155	295	3000	1.3	NNCL 4918V	SL02 4918
100	140	40	1.1	2	196	380	2700	1.9	NNCL 4920V	SL02 4920
110	150	40	1.1	2	204	410	2500	2.1	NNCL 4922V	SL02 4922
120	165	45	1.1	3	228	455	2300	2.85	NNCL 4924V	SL02 4924
130	180	50	1.5	4	265	530	2100	3.8	NNCL 4926V	SL02 4926
140	190	50	1.5	4	275	570	2000	4.1	NNCL 4928V	SL02 4928
150	190	40	1.1	2	237	550	1900	2.8	NNCL 4830V	SL02 4830
	210	60	2	4	415	840	1800	6.45	NNCL 4930V	SL02 4930
160	200	40	2.1	2	243	580	1800	3	NNCL 4832V	SL02 4832
	220	60	2	4	435	900	1700	6.8	NNCL 4932V	SL02 4932
170	215	45	1.1	3	265	620	1700	3.95	NNCL 4834V	SL02 4834
	230	60	2	4	445	950	1600	7.1	NNCL 4934V	SL02 4934
180	225	45	1.1	3	275	660	1600	4.15	NNCL 4836V	SL02 4836
	250	69	2	4	580	1230	1500	10.5	NNCL 4936V	SL02 4936

双向游动双列满装圆柱滚子轴承

Both directions positioning double row full complement cylindrical roller bearing

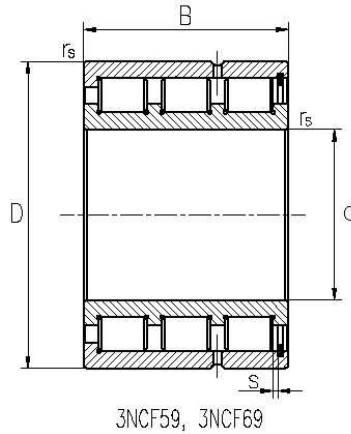


NNCL48, NNCL49

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	s	Cr	Cor			SKF	INA
190	240	50	1.5	4	315	750	1500	5.45	NNCL 4838V	SL02 4838
	260	69	2	4	590	1290	1400	10.9	NNCL 4938V	SL02 4938
200	250	50	1.5	4	325	790	1400	5.7	NNCL 4840V	SL02 4840
	280	80	2.1	5	690	1480	1400	15.3	NNCL 4940V	SL02 4940
220	270	50	1.5	4	340	870	1300	6.2	NNCL 4844V	SL02 4844
	300	80	2.1	5	720	1590	1200	16.7	NNCL 4944V	SL02 4944
240	300	60	2	4	520	1290	1200	9.9	NNCL 4848V	SL02 4848
	320	80	2.1	5	750	1740	1200	17.9	NNCL 4948V	SL02 4948
260	320	60	2	4	540	1400	1100	10.6	NNCL 4852V	SL02 4852
	360	100	2.1	6	1120	2500	1000	31.2	NNCL 4952V	SL02 4952
280	350	69	2	4	710	1860	1000	15.6	NNCL 4856V	SL02 4856
	380	100	2.1	6	1170	2700	1000	33.1	NNCL 4956V	SL02 4956
300	380	80	2.1	6	830	2120	950	22	NNCL 4860V	SL02 4860
	420	118	3	6	1650	3800	900	51.9	NNCL 4960V	SL02 4960
320	400	80	2.1	6	860	2280	900	23.5	NNCL 4864V	SL02 4864
	440	118	3	6	1720	4100	850	54.9	NNCL 4964V	SL02 4964
340	420	80	2.1	6	880	2390	850	25	NNCL 4868V	SL02 4868
	460	118	3	6	1770	4300	800	57.8	NNCL 4968V	SL02 4968
360	440	80	2.1	6	910	2550	800	26	NNCL 4872V	SL02 4872
	480	118	3	6	1810	4500	750	60.8	NNCL 4972V	SL02 4972
380	480	100	2.1	6	1330	3550	750	44	NNCL 4876V	SL02 4876
	520	140	4	7	2280	5600	700	90.5	NNCL 4976V	SL02 4976
400	500	100	2.1	6	1360	3700	700	45.8	NNCL 4880V	SL02 4880
	540	140	4	7	2340	5900	700	94.6	NNCL 4980V	SL02 4980

三列满装圆柱滚子轴承

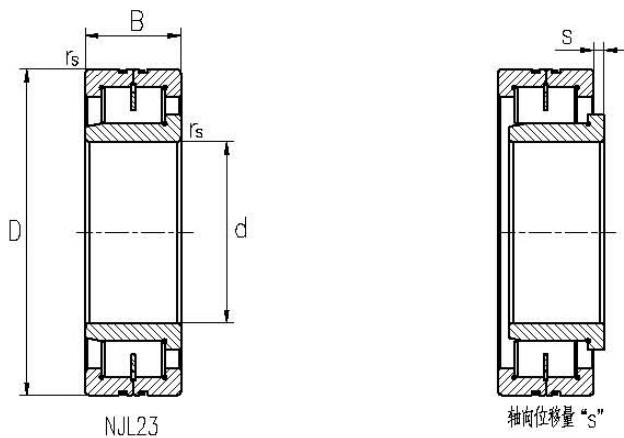
Three-row full complement cylindrical roller bearings



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	r _{smin}	s	Cr	Cor			SKF	INA
30	47	30	0.3	0.7	42	80	6500	0.16	3NCF 6906V	SL14 906
35	55	32	0.6	0.7	53	94	5500	0.28	3NCF 6907VX ₂	SL14 907
	55	44	0.6	1	84	170	5500	0.41	3NCF 6907VX ₂₋₁	F-91443
40	62	32	0.6	0.7	63	107	5000	0.4	3NCF 5908VX ₂	SL14 908
45	68	36	0.6	0.7	80	160	4600	0.48	3NCF 6909VX ₂	SL14 909
50	72	36	0.6	0.7	84	165	4300	0.52	3NCF 6910VX ₂	SL14 910
55	80	36	1	0.7	97	199	3700	0.71	3NCF 5911VX ₂	SL14 911
60	85	40	1	0.7	102	216	3500	0.73	3NCF 6912VX ₂	SL14 912
65	90	44	1	1	124	250	3200	1.08	3NCF 6913VX ₂	SL14 913
70	100	44	1	1	142	265	3200	1.10	3NCF 5914VX ₂	SL14 914
80	110	44	1	1	150	300	2900	1.25	3NCF 5916VX ₂	SL14 916
90	125	52	1.1	1.5	205	425	2500	1.95	3NCF 5918VX ₂	SL14 918
100	140	59	1.1	2	260	550	2200	2.85	3NCF 5920VX ₂	SL14 920
110	150	59	1.1	2	270	600	2100	3.10	3NCF 5922VX ₂	SL14 922
120	165	66	1.1	3	305	660	1900	4.20	3NCF 5924VX ₂	SL14 924
130	180	73	1.5	4	355	770	1700	5.60	3NCF 5926VX ₂	SL14 926
140	190	73	1.5	4	370	830	1600	6.00	3NCF 5928VX ₂	SL14 928
150	210	88	2	4	560	1230	1500	9.5	3NCF 5930VX ₂	SL14 930
160	220	88	2	4	580	1330	1400	10	3NCF 5932VX ₂	SL14 932
170	230	88	2	4	600	1390	1300	10.5	3NCF 5934VX ₂	SL14 934
180	250	101	2	4	780	1810	1300	15.5	3NCF 5936VX ₂	SL14 936
190	260	101	2	4	800	1900	1200	16.2	3NCF 5938VX ₂	SL14 938
200	280	116	2.1	5	940	2220	1100	22.4	3NCF 5940VX ₂	SL14 940

带圆盘保持架单列圆柱滚子轴承

Disc cage 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	s	C_r	C_{or}			SKF	INA
100	215	73	3	4	670	800	6500	12.8	NJL 2320	LSL19 2320
110	240	80	3	5	790	940	5600	17.3	NJL 2322	LSL19 2322
120	260	86	3	5	950	1150	5300	22	NJL 2324	LSL19 2324
130	280	93	4	5	1070	1300	4900	27.2	NJL 2326	LSL19 2326
140	300	102	4	7	1200	1470	4600	34	NJL 2328	LSL19 2328
150	320	108	4	7	1420	1780	4200	40.7	NJL 2330	LSL19 2330
160	340	114	4	7	1600	2020	3900	48	NJL 2332	LSL19 2332
170	360	120	4	7	1750	2230	3800	57.5	NJL 2334	LSL19 2334
180	380	126	4	7	1850	2440	3500	67.4	NJL 2336	LSL19 2336
190	400	132	5	7	2110	2750	3400	78.1	NJL 2338	LSL19 2338
200	420	138	5	7	2350	3050	3200	89.3	NJL 2340	LSL19 2340
220	460	145	5	7	2500	3200	2900	108	NJL 2344	LSL19 2344
240	500	155	5	10	2750	3550	2700	138.6	NJL 2348	LSL19 2348
260	540	165	6	10	3400	4400	2400	168	NJL 2352	LSL19 2352
280	580	175	6	12	3700	4850	2300	206.6	NJL 2356	LSL19 2356
300	620	185	7.5	12	4150	5600	2200	253	NJL 2360	LSL19 2360



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