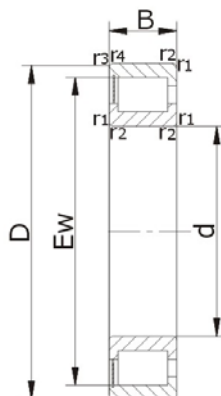


Full complement cylindrical roller bearings

Full complement cylindrical roller bearings include single-row full complement cylindrical roller bearings (type NCF) and double-row full complement cylindrical roller bearings (type NNCF) .

Full complement cylindrical roller bearings have no cage, full of rollers, the loading capacity is higher than bearings with cage, but the high speed performance is worse. Single and double rows open bearings are primarily used in general mechanical equipment required lower speed and heavy loads. Double-row closed bearings are generally used in wire rope pulleys of cranes.

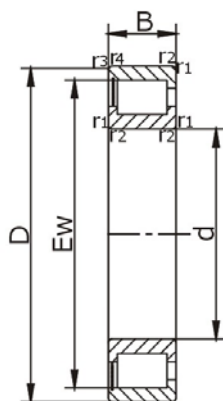
Single-row full complement cylindrical roller bearings (Type NCF)



Type NCF

Boundary dimensions						Basic load ratings		Designations	Mass	Limiting speeds	
mm						kN				r/min	
d	D	B	r ₁ , 2min	r ₃ , 4min	Ew	Cr	Cor		kg	Grease	Oil
150	210	36	2	1.1	195.5	289	505	NCF2930V	3.7	670	1400
	225	56	2.1	1.1	211.7	460	710	NCF3030V	7.1	630	1300
160	220	36	2	1.1	205.7	310	535	NCF2932V	3.8	630	1300
	240	60	2.1	1.1	225.1	520	810	NCF3032V	8.6	600	1200
170	215	22	1.5	1.1	203.5	149	272	NCF1834V	1.8	600	1200
	230	36	2	1.1	216	320	570	NCF2934V	4.1	600	1200
	260	67	2.1	1.1	243.2	675	1070	NCF3034V	11.9	560	1100
180	225	22	1.1	1	215.2	154	290	NCF1836V	1.8	600	1200
	250	42	2	1.1	232	390	695	NCF2936V	6.0	560	1100
	280	74	2.1	2.1	260.5	785	1260	NCF3036V	15.8	560	1100
190	240	24	1.5	1.1	229	178	335	NCF1838V	2.4	560	1100
	260	42	2	1.1	244	435	785	NCF2938V	6.5	560	1100
	290	75	2.1	2.1	270	805	1320	NCF3038V	16.7	530	1000
200	250	24	1.5	1.1	237.5	193	356	NCF1840V	2.5	560	1100
	280	48	2.1	1.5	262	530	955	NCF2940V	8.9	530	1000
	310	82	2.1	2.1	288.2	910	1510	NCF3040V	21.4	500	950
220	270	24	1.5	1.1	258	191	385	NCF1844V	2.7	530	1000
	300	48	2.1	1.5	283	555	1050	NCF2944V	9.6	480	900
	340	90	3	3	312.7	1100	1820	NCF3044V	28.2	450	850

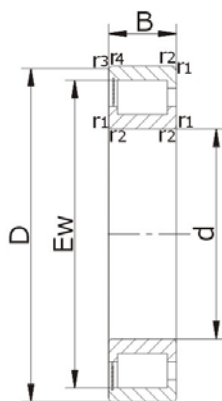
Single-row full complement cylindrical roller bearings (Type NCF)



Type NCF

Boundary dimensions						Basic load ratings		Designations	Mass	Limiting speeds	
mm						kN				r/min	
d	D	B	r ₁ , 2min	r ₃ , 4min	Ew	Cr	Cor		kg		Grease
240	300	28	2	1.1	287	236	470	NCF1848V	4.2	480	900
	320	48	2.1	1.5	303	580	1140	NCF2948V	10.4	450	850
	360	92	3	3	335.25	1350	2490	NCF3048V	31.2	430	800
260	320	28	2	1.1	307.2	247	510	NCF1852V	4.5	430	800
	360	60	2.1	1.5	333.7	750	1460	NCF2952V	18.1	400	750
	400	104	4	4	376.1	1740	2960	NCF3052V	45.3	380	700
280	350	33	2	1.1	334	330	675	NCF1856V	6.8	400	750
	380	60	2.1	1.5	358.8	814	1750	NCF2956V	19.5	380	700
	420	106	4	4	390.5	1740	3110	NCF3056V	49	360	670
300	380	38	2.1	1.5	363	445	870	NCF1860V	9.7	360	670
	420	72	3	3	385	805	1730	NCF2960V	30.7	340	630
	460	118	4	4	432	1980	3500	NCF3060V	67.6	320	600
320	400	38	2.1	1.5	383	460	925	NCF1864V	10.3	340	630
	440	72	3	3	411	1150	2340	NCF2964V	33	320	600
	480	121	4	4	447.3	2170	3900	NCF3064V	73	300	560
340	420	38	2.1	1.5	401	475	985	NCF1868V	10.7	320	600
	460	72	3	3	431	1190	2470	NCF2968V	34.1	300	560
	520	133	5	5	486	2480	4350	NCF3068V	97	280	530
360	440	38	2.1	1.5	423.2	562	1180	NCF1872V	11.5	300	560
	480	72	3	3	451.5	1220	2610	NCF2972V	36	280	530
	540	134	5	5	503.2	2550	4600	NCF3072V	102	260	500
380	480	46	2.1	1.5	458	575	1230	NCF1876V	18.6	280	530
	520	82	4	4	486.7	1480	3210	NCF2976V	52	260	500
	560	135	5	5	520.5	2610	4800	NCF3076V	108	240	480
400	500	46	2.1	1.5	475	590	1300	NCF1880V	19.5	260	500
	540	82	4	4	511	1650	3550	NCF2980V	53.4	240	480
	600	148	5	5	559.1	2940	5450	NCF3080V	139	220	450
420	520	46	2.1	1.5	499	600	1340	NCF1884V	20.5	240	480
	560	82	4	4	524	1740	3590	NCF2984V	55.7	220	450
	620	150	5	5	578.2	3000	5650	NCF3084V	147	200	430
440	540	46	2.1	1.5	516	615	1410	NCF1888V	21.3	220	450
	600	95	4	4	565.5	2100	4160	NCF2988V	78.2	200	430
460	580	56	3	3	553	920	1950	NCF1892V	32.5	200	430
	620	95	4	4	579	2130	4480	NCF2992V	81.2	190	400
480	600	56	3	3	573.5	940	2040	NCF1896V	33.8	190	400
	650	100	5	5	606	2380	5100	NCF2996V	95.1	180	380
500	620	56	3	3	594	1030	2200	NCF18/500V	35	180	380
	670	100	5	5	634.5	2420	5250	NCF29/500V	98.4	170	360

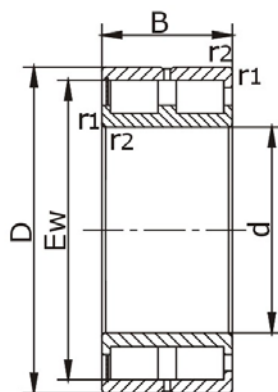
Single-row full complement cylindrical roller bearings (Type NCF)



Type NCF

Boundary dimensions						Basic load ratings		Designations	Mass	Limiting speeds	
mm						kN				r/min	
d	D	B	r ₁ , 2min	r ₃ , 4min	Ew	Cr	Cor		kg	Grease	Oil
530	650	56	3	3	624.5	990	2240	NCF18/530V	36.9	170	360
560	680	56	3	3	655	1020	2360	NCF18/560V	39.3	160	340
600	730	60	3	3	696	1140	2680	NCF18/600V	48.9	150	320
630	780	69	4	4	739	1470	3400	NCF18/630V	68.8	140	300
670	820	69	4	4	783	1520	3550	NCF18/670V	72.7	130	280
	820	88	4	4	783	2040	5340	NCF28/670V	90.8	130	280
710	870	74	4	4	831	1670	3900	NCF18/710V	79.7	120	260
750	920	78	5	5	880	1890	4430	NCF18/750V	94.6	110	240
	920	100	5	5	880	2630	6790	NCF28/750V	130	110	240
800	980	82	5	5	936	2070	4930	NCF18/800V	113	100	220
900	1090	85	5	5	1044	2390	5900	NCF18/900V	139	90	190
1000	1220	100	6	6	1165	3110	7640	NCF18/1000V	209	75	160

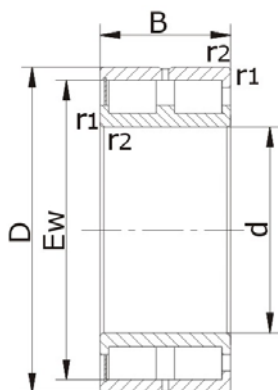
Double-row full complement cylindrical roller bearings (Type NNCF)



Type NNCF

Boundary dimensions					Basic load ratings		Designations	Mass	Limiting speeds	
mm					kN				r/min	
d	D	B	r _{1, 2min}	Ew	Cr	Cor		kg	Grease	Oil
150	210	60	2	192	390	865	NNCF4930V	6.6	670	1400
	225	100	2.1	209	785	1420	NNCF5030V	13	630	1300
160	220	60	2	203.9	410	930	NNCF4932V	7.0	630	1300
	240	109	2.1	225	895	1620	NNCF5032V	15.8	600	1200
170	230	60	2	212.2	415	975	NNCF4934V	7.3	600	1200
	260	122	2.1	243	1160	2140	NNCF5034V	22.1	560	1100
180	250	69	2	231.1	550	1230	NNCF4936V	10.7	560	1100
	280	136	2.1	260.5	1340	2510	NNCF5036V	29.4	560	1100
190	260	69	2	241.3	565	1290	NNCF4938V	11.1	560	1100
	290	136	2.1	270	1380	2630	NNCF5038V	30.8	530	1100
200	250	50	1.5	235.9	320	825	NNCF4840V	5.9	560	1100
	280	80	2.1	260	665	1500	NNCF4940V	15.7	530	1000
	310	150	2.1	288	1560	3000	NNCF5040V	39.7	500	950
220	270	50	1.5	256.9	340	905	NNCF4844V	6.4	530	1000
	300	80	2.1	277.2	695	1620	NNCF4944V	17	500	950
	340	160	3	308.5	1570	3080	NNCF5044V	50.7	450	850
240	300	60	2	282.4	495	1340	NNCF4848V	10.3	480	900
	320	80	2.1	300.1	725	1770	NNCF4948V	18.4	450	850
	360	160	3	335.6	1990	4000	NNCF5048V	54.3	430	800
260	320	60	2	304.7	515	1450	NNCF4852V	11	430	800
	360	100	2.1	331.5	1050	2530	NNCF4952V	32	400	750
	400	190	4	373.5	2690	5200	NNCF5052V	82.7	380	700
280	350	69	2	332.9	685	1860	NNCF4856V	16	400	750
	380	100	2.1	353.5	1090	2720	NNCF4956V	34	380	700
	420	190	4	389	2770	5450	NNCF5056V	87.7	360	670
300	380	80	2.1	357.4	805	2160	NNCF4860V	23	380	700
	420	118	3	390.2	1580	3800	NNCF4960V	52	340	630
	460	218	4	432	3400	7000	NNCF5060V	125	320	600
320	400	80	2.1	380.3	835	2310	NNCF4864V	24.3	340	630
	440	118	3	409	1620	4000	NNCF4964V	55	320	600
	480	218	4	447.5	3500	7350	NNCF5064V	131	300	600
340	420	80	2.1	397.4	855	2430	NNCF4868V	25.6	320	600
	460	118	3	427.1	1690	4300	NNCF4968V	58	300	560
	520	243	5	486	4250	8750	NNCF5068V	177	280	530
360	440	80	2.1	420.2	85	2580	NNCF4872V	27	300	560
	480	118	3	446	1730	4500	NNCF4972V	61	300	560
	540	243	5	503.6	4190	8850	NNCF5072V	186	260	500

Double-row full complement cylindrical roller bearings (Type NNCF)



Type NNCF

Boundary dimensions					Basic load ratings		Designations	Mass	Limiting speeds	
mm					kN				r/min	
d	D	B	r _{1, 2min}	Ew	Cr	Cor		kg	Grease	Oil
380	480	100	2.1	456	1260	3600	NNCF4876V	45.5	280	530
	520	140	4	481.5	2180	5650	NNCF4976V	90.5	260	500
	560	243	5	521.4	4280	9210	NNCF5076V	194	240	480
400	500	100	2.1	470.3	1290	3750	NNCF4880V	47.5	260	500
	540	140	4	502	2240	5900	NNCF4980V	94.5	240	480
	600	272	5	560	5050	10900	NNCF5080V	256	220	450
420	520	100	2.1	492.6	1320	3950	NNCF4884V	49.5	240	480
	560	140	4	522.5	2290	6200	NNCF4984V	98.5	220	450
	620	272	5	577.7	5150	11300	NNCF5084V	267	200	430
440	540	100	2.1	514.6	1350	4150	NNCF4888V	51.5	220	450
	600	160	4	563.5	3000	7850	NNCF4988V	136	200	430
460	580	118	3	543.3	1730	5150	NNCF4892V	77.5	200	430
	620	160	4	577	3050	8050	NNCF4992V	142	190	400
480	600	118	3	567.3	1760	5300	NNCF4896V	80.5	190	400
	650	170	5	605.5	3350	8900	NNCF4996V	167	180	380
500	620	118	3	583.5	1810	5600	NNCF48/500V	83.5	190	400
	670	170	5	631.5	3400	9350	NNCF49/500V	173	170	360