



SHAANXI FROTUNE TRADING CO., LTD

陕西嘉汇丰贸易有限公司

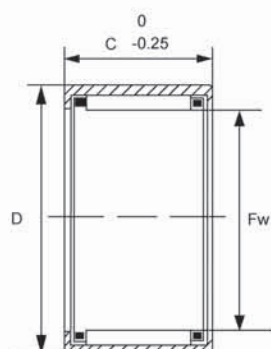
Add: ADD:A1007 FENG HUANG XIN CHENG FENG CHENG III ROAD XI'AN CHINA

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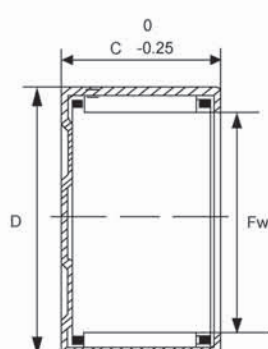
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Needle Roller Bearings

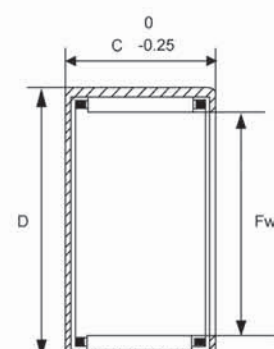




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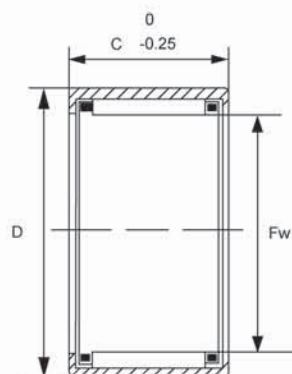
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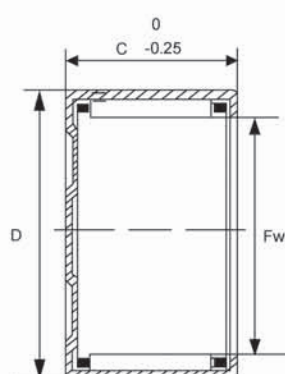
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Drawn Cup Needle Roller Bearings

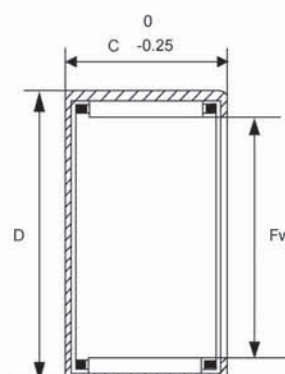
Shaft Diameter	Bearing Designation		Mass Approx	Boundary Dimensions			Basic Load Rating		Limiting Speed
	Current	Original Code		Fw	D	C	Cr Dynamic	Cor Static	
mm			g		mm		N		rpm
4	HK0408TN	37491/4	1.6	4	8	8	1540	1070	40000
	BK0408TN	5941/4	1.8	4	8	8	1540	1070	40000
5	HK05x08.5x0.7			5	8.5	7			
	HK05x09x08			5	9	8	2200	1790	36000
	HK0509	47941/5	2	5	9	9	2200	1790	36000
	BK0509	45941/5	2.1	5	9	9	2200	1790	36000
6	HK0607	27941/6	1.8	6	10	7	1600	1400	30000
	HK0608	37941/6	2.1	6	10	8	1830	1550	32000
	BK0608	35941/6	2.2	6	10	8	1830	1550	32000
	HK0609	47941/6	2.2	6	10	9	2650	2400	3000
	BK0609	45941/6	2.6	6	10	9	2650	2400	3000
	HK0611		2.3	6	10	11	1700	1500	29000
	HK06x12x08	3941/6	2.5	6	12	8	2230	2010	33000
7	HK0708			7	11	8	2800	2150	27000
	HK0709	47941/9	2.3	7	11	9	2800	2150	27000
	BK0709	45941/9	2.9	7	11	9	2800	2150	27000
	HK07x12x08		2.2	7	12	8	3300	3220	37000
	HK07x12x09		2.4	7	12	9	3400	3150	37000
8	HK0808	37941/8	2.7	8	12	8	2550	2400	21000
	BK0808	35941/8	3	8	12	8	2550	2400	21000
	HK0810	57941/8	3	8	12	10	3700	3450	21000
	BK0810	88941/8	3.4	8	12	10	3700	3450	21000
	HK08x14x10	27942/8	5.35	8	14	10	3800	3950	25000
	BK08x14x10	35942/8	5.8	8	14	10	3800	3950	25000
	HK08x14x12	37942/8	6.6	8	14	12	4100	4320	25000
9	HK0908	37941/9	3	9	13	8	3650	4050	25000
	BK0908	35941/9	3.4	9	13	8	3650	4050	25000
	HK0910	57941/9	4	9	13	10	4050	4250	25000
	BK0910	55941/9	4.3	9	13	10	4050	4250	25000
	HK0911		4.1	9	13	11	4300	4700	25000
	HK0912	67941/9	4.6	9	13	12	5000	6000	25000
	BK0912	65941/9	4.9	9	13	12	5000	6000	25000
	HK09x15x10	27942/9	5.6	9	15	10	5300	6300	25000



HK(open End)

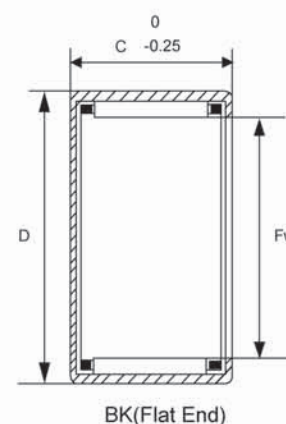
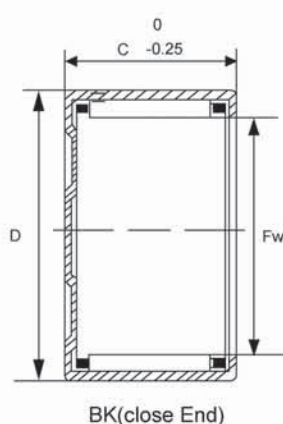
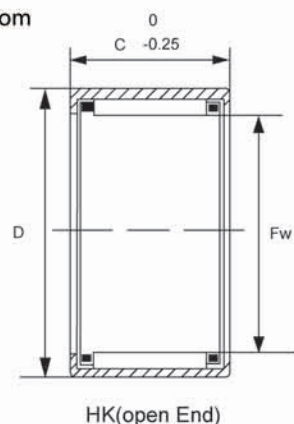


BK(close End)



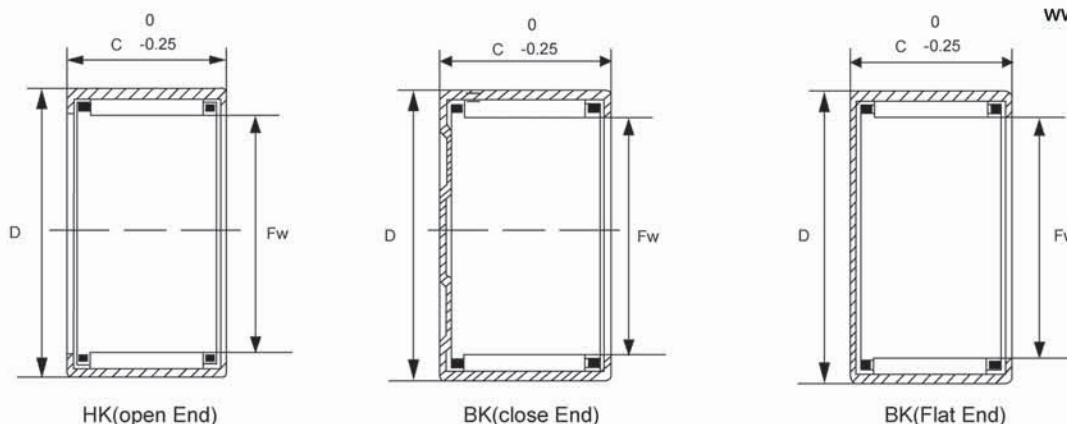
BK(Flat End)

Shaft Diameter	Bearing Designation		Mass Approx	Boundary Dimensions			Basic Load Rating		Limiting Speed
	Current	Original Code		Fw	D	C	Cr Dynamic	Cor Static	Oil
									mm
10	HK10x13x08		3.5	10	13	8	4100	4800	20000
	HK1010	57941/10	4.1	10	14	10	3900	4800	19000
	BK1010	55941/10	4.3	10	14	12	3900	4800	19000
	HK1012	67941/10	4.8	10	14	12	5000	6300	19000
	BK1012	65941/10	5	10	14	12	5000	6300	19000
	HK1015		6	10	14	15	6700	7800	19000
	BK1015		6.2	10	14	15	6700	7800	19000
	HK10x15x15	644900	6.5	10	15	15	6800	8800	18000
	HK10x16x10		6.5	10	16	10	6800	8800	18000
	BK10x16x10		6.8	10	16	10	6800	8800	18000
	HK10x16x12	DB1012	7.5	10	16	12	6800	8800	18000
	HK10x16x15	7942/10	11	10	16	15	6800	8800	19000
	HK10x17x15		11.5	10	17	15	7200	8000	19000
	Hk10x18x12		8.5	10	18	12	7200	8000	19000
12	HK1208	37941/12	3.3	12	16	8	7200	8000	19000
	HK1210	57941/12	4.6	12	16	10	4150	5800	19000
	BK1210	55941/12	5.2	12	16	10	4150	5800	19000
	HK1212	67941/12	5.6	12	16	12	3800	5100	15000
	BK1212	65941/12	6.2	12	16	12	3800	5100	15000
	HK12x17x12	7941/12	7.5	12	17	12	5100	7000	15000
	HK12x17x15	7942/12	9.5	12	17	15	5100	7000	15000
	HK12x17x18	7943/12	11	12	17	18	5100	7000	15000
	HK12x18x12	37942/12	9.1	12	18	12	5500	6300	17000
	BK12x18x12	35942/12K	10.3	12	18	12	5500	6300	17000
	HK12x18x14	67942/12	10.6	12	18	14	6500	6300	15000
	HK12x19x12		10	12	19	12	6800	7400	15000
13	HK1311		8.5	13	19	11	6300	6300	14000
	HK1312		8.9	13	19	12	6200	7100	17000
	BK1312		11.2	13	19	12	6200	7100	17000
13.5	HK13.5x19x12		13.5	19	12	18			16000
	HK13.5x20x12	7941/13.5	10.8	13.5	20	12	6250	7590	16000
14	HK1410	27941/13.5	8.3	14	20	10	6700	7000	16000
	BK1410	35941/14	12.1	14	20	10	6700	7000	16000
	HK1412	37941/14	10.5	14	20	12	6800	7500	16000

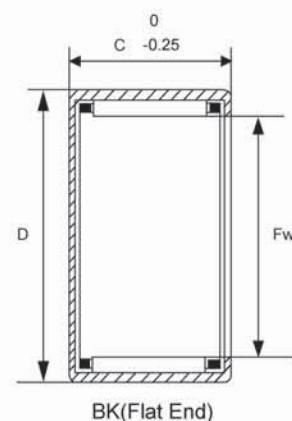
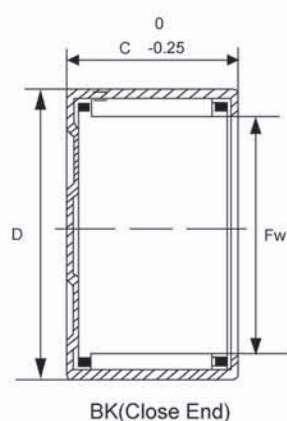
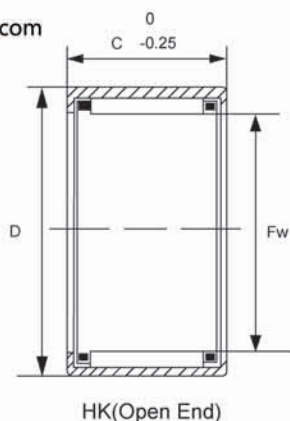


Drawn Cup Needle Roller Bearings

Shaft Diameter	Bearing Designation		Mass Approx	Boundary Dimensions			Basic Load Rating		Limiting Speed
	Current	Original Code		Fw	D	C	Cr Dynamic	Cor Static	Oil
					mm		N		rpm
14	HK1416	57941/14	13.9	14	20	16	7300	9000	14000
	HK1418			14	20	18			14000
15	HK15x20x12	7941/15	8.4	15	20	12	5800	6000	14000
	HK15x20x16	7942/15	11.4	15	20	12	6000	6200	14000
	HK15x20x20	7943/15	13.8	15	20	20	6100	6400	14000
	HK1512	37941/15	11.1	15	21	12	7000	8400	14000
	BK1512	35941/15	12.7	15	21	12	7000	8400	14000
	HK1514	47941/15	12.7	15	21	14	8500	10400	13000
	HK1515		14.2	15	21	15	9100	11400	13000
	Bk1515			15	21	15	9800	11400	14000
	TA1515			15	22	15		11400	
	TA1515Z			15	22	15		11400	
	HK1516	57941/15	15	15	21	16	9800	11400	14000
	BK1516	55941/15	16.5	15	21	16	9800	11400	14000
	HK1522	SZ-439	20.4	15	21	22	10400	16500	14000
	BK1522		22	15	21	22	10400	16500	14000
	HK15x22x12	7948/15	12.5	15	22	12	14300	18400	13000
	HK15x22x12.5	7948/15K	13.5	15	22	12.5	14300	18400	13000
16	HK16x21x06		5.5	16	21	6	4200	5300	12000
	HK16x21x09		7.5	16	21	9	4400	5600	12000
	HK1612	37941/16	11.7	16	22	12	7100	9200	14000
	BK1612	35941/16	13.8	16	22	12	7100	9200	14000
	HK1614	47941/16	14.4	16	22	14	8800	9900	12000
	HK1616	57941/16	15.8	16	22	16	10100	14300	14000
	BK1616	55941/16	17.6	16	22	16	10100	14300	14000
	HK1617	SZ-435	18	16	22	17	12900	17200	12000
	HK1622	87941/16	21.7	16	22	22	11100	17400	14000
	BK1622	85941/16	23.4	16	22	22	11100	17400	14000
17	HK17x21.5x15	17BTM15	10	17	21.5	15	6300	8600	11000
	HK1712	37941/17	12.2	17	23	12	6900	9300	13000
	BK1712	35941/17	14.5	17	23	12	6900	9300	13600
	HK1714	7941/17	14	17	23	14	6800	10200	10000
	HK1716	57941/17	15.9	17	23	16	9500	12500	10000
	HK1718	7942/17	19	17	23	18	9500	10600	10000

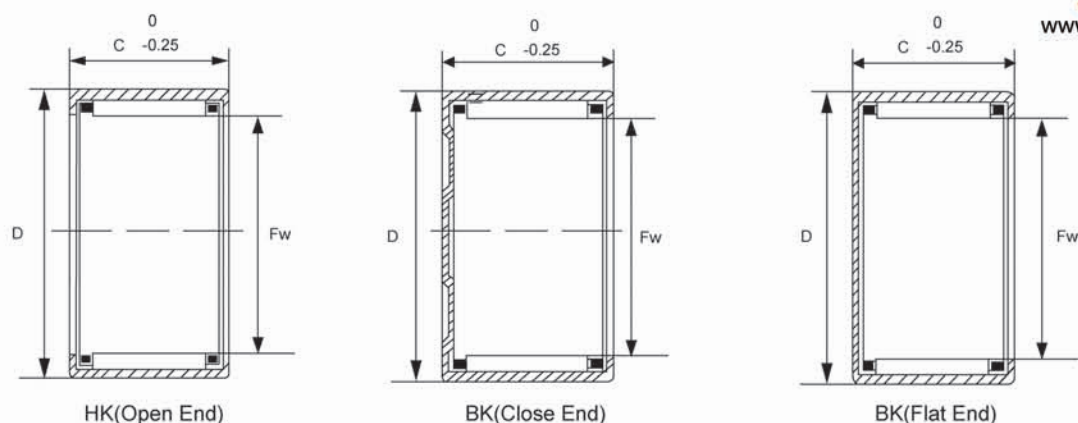


Shaft Diameter	Bearing Designation		Mass Approx	Boundary Dimensions			Basic Load Rating		Limiting Speed
	Current	Original Code		Fw	D	C	Cr Dynamic	Cor Static	Oil
									mm
17	HK1722	7943/17	17	17	23	22			
	HK17x24x15		17	17	24	15	11200	12800	10000
	HK17x25x14	37942/17K	17.7	17	25	14	13100	14700	10000
	HK17x25x15.5		20	17	25	15.5	9320	10400	10000
	HK17x25x18	57942/17K	23.5	17	25	18	9500	10600	11000
18	HK1812	37941/18	13.1	18	24	12	7100	9900	12000
	BK1812	35941/18	14.9	18	24	12	7100	9900	12000
	HK1816	57941/18	19.9	18	24	16	10650	15300	12000
	BK1816	55941/18	19.9	18	24	16	10600	15300	12000
	HK18x24x20		18	18	24	20			
19	HK19x27x16	TA1916	23	19	27	16	8100	9500	10500
20	HK2010	27941/20	11.8	20	26	10	5900	7200	10000
	BK2010	25941/20	14	20	26	10	5900	7200	10000
	HK2011		12	20	26	11	7500	9200	9000
	HK2012	37941/20	14.1	20	26	12	7600	10100	10000
	BK2012	35941/20	16.7	20	26	12	7600	10100	10000
	HK2014	47941/20	15.7	20	26	14	9700	18100	9000
	HK2016	57941/20	19.3	20	26	16	11700	29100	10000
	BK2016	55941/20	22.3	20	26	16	11700	29100	10000
	HK2018	67941/20	23.3	20	26	18	7900	12800	9000
	HK2020	7942/20	24.1	20	26	20	13700	24000	10000
	BK2020	75941/20	27.1	20	26	20	13700	24000	10000
	HK2025	7943/20	28	20	26	25	9100	14800	9900
	HK2030		34.7	20	26	30	21800	40000	10100
	BK2030		37.4	20	26	30	21800	40000	10100
	HK20x27x18		78	20	27	18	26000	47200	9900
	HK20x27x20		82	20	27	20	26300	47800	9900
	HK20x27x30		94	20	27	30	28500	48800	9900
	HK20x28x16	47942/20	28.5	20	28	16	29600	49800	9900
	HK20x29x18		41	20	29	18	30900	54600	9900
22	HK22x28x7.5TN		8.8	22	28	7.5	5200	7000	10010
	HK2210	27941/22	12.3	22	28	10	7200	9500	10010
	HK2212	37941/22	15	22	28	12	8100	10400	10010
	BK2212	35941/22	18.1	22	28	12	8100	10400	10010

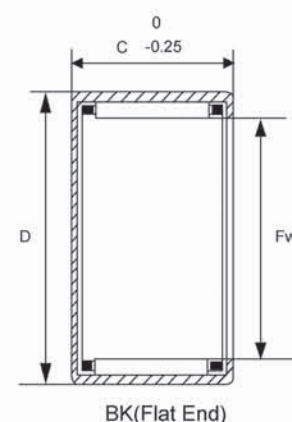
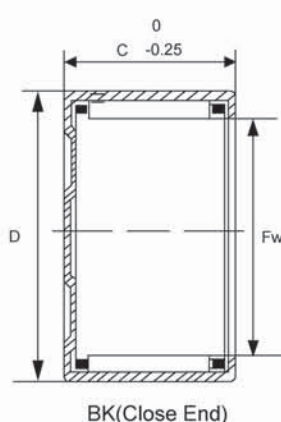
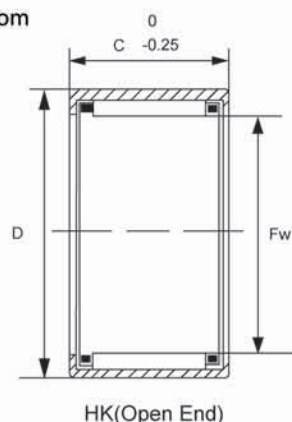


Drawn Cup Needle Roller Bearings

Shaft Diameter	Bearing Designation		Mass Approx	Boundary Dimensions			Basic Load Rating		Limiting Speed
	Current	Original Code		Fw	D	C	Cr Dynamic	Cor Static	Oil
mm			g		mm		N		rpm
22	HK2216	57941/22	20.9	22	28	16	11400	18100	10010
	BK2216	55941/22	24.3	22	28	16	11400	18100	10010
	HK2220	77941/22	26.2	22	28	20	14500	25000	10010
	BK2220	75941/22	29.9	22	28	20	14500	25000	10010
	HK2230		32	22	28	30	17500	30400	9000
	HK22x29x25		37	22	29	25	18100	31500	9000
	HK22x29x30		43	22	29	30	19400	33100	9000
	HK22x30x14	37941/22	21.9	22	30	14	19800	34000	9000
24	HK24x30x7.5TN		10.6	24	30	7.5	5800	7200	10000
25	HK2512	27941/25	20	25	32	12	10000	14200	9000
	BK2512	25941/25	23.2	25	32	12	10000	14200	9000
	HK2514	37941/25	21.9	25	32	14	13600	18700	9000
	HK2516	7941/25	27.3	25	32	16	13600	20000	9000
	BK2516	7941/25	31	25	32	16	13600	50000	9000
	HK2518	57941/25	28.2	25	32	18	17500	25800	9000
	HK2520	67941/25	34.1	25	32	20	17900	30000	9000
	BK2520	65941/25	37.8	25	32	20	17900	30000	9000
	HK2525	7943/25	40	25	32	25	22200	36700	9000
	HK2526		44.8	25	32	26	22500	42000	9000
	BK2526		49	25	32	26	22500	42000	9000
	HK2538	87941/25	64.7	25	32	38	30000	58000	9000
	BK2538	85941/25	69	25	32	38	30000	58000	9000
	HK25x33x10		17	25	33	10	34800	69600	9000
	HK25x33x15		27.4	25	33	15	35700	70000	9000
	HK25x35x20	57942/25	44.9	25	35	20	36100	78650	9000
28	HK2816	47941/28	30.1	28	35	16	15400	22500	8700
	BK2816	45941/28	34.1	28	35	16	15400	22500	8700
	HK2818	57941/258	31.7	28	35	18	18500	29300	8700
	HK2820	67941/28	37.6	28	35	20	18900	32000	8700
	BK2820	65941/28	43	28	35	20	18900	32000	8700
30	HK3012	27941/30	24	30	37	12	10100	16200	8100
	BK3012	25941/30	27.9	30	37	12	10100	16200	8100
	HK3016	47941/30	32	30	37	16	15200	27000	8100
	BK3016	45941/30	37.1	30	37	16	15200	27000	8100

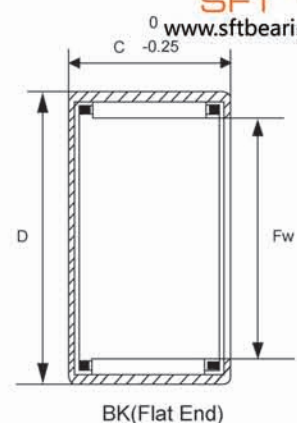
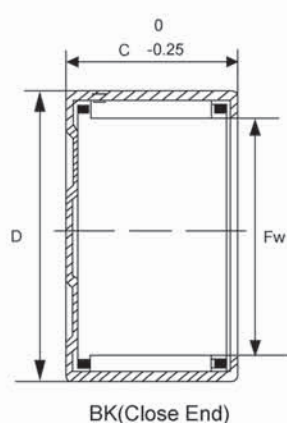
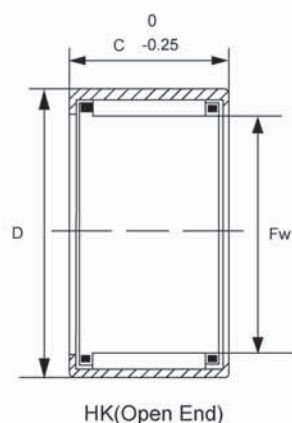


Shaft Diameter	Bearing Designation		Mass Approx	Boundary Dimensions			Basic Load Rating		Limiting Speed
	Current	Original Code		Fw	D	C	Cr Dynamic	Cor Static	Oil
mm			g		mm		N		rpm
30	HK3018	57491/30	33.6	30	37	18	19200	31500	8100
	HK3020	6794/30	40.1	30	37	20	19700	33500	8100
	BK3020	65941/30	46.5	30	37	20	19700	33500	8100
	HK3026		52.9	30	37	26	24000	50000	8100
	BK3026		59.4	30	37	26	24000	50000	8100
	HK3038		76.1	30	37	38	32500	74000	8100
	BK3038		82.5	30	37	38	32500	74000	8100
	HK30X38X12	27941/30K	28	30	38	12	38100	80000	8100
	HK30X38X16	7941/30	32.7	30	38	16	39000	82000	8100
	HK30X38X24	7942/30	49	30	38	24	39910	88800	8100
	HK30X38X32	7943/30	69	30	38	32	38890	88700	8100
32	HK32X38X11		17	32	38	11	19700	43200	7800
	HK3224	77941/32	50.7	32	38	24	25500	52000	7300
	HK3232	97941/32	66.4	32	39	32	22600	54300	7100
	HK32X19X16			32	19	16			
	HK32X40X32	7943/32	72.7	32	40	32	27900	59890	7100
	HK32X41X16			32	41	16			
35	HK3512	27941/35	27.7	35	42	12	12100	19300	7100
	BK3512	25941/35	32.9	35	42	12	12100	19300	7100
	HK3516	47941/35	36.9	35	42	16	15700	27500	7100
	BK3516	45941/35	43.8	35	42	16	15700	27500	7100
	HK3520	67941/35	46.1	35	42	20	20800	41000	7100
	BK3520	65941/35	54.8	35	42	20	20800	41000	7100
	HK35X43X16	7941/35	37	35	43	16	24200	47100	7100
	HK35X43X25	7942/35	60.5	35	43	25	24440	48200	6200
	HK35X43X32	7943/35	80	35	43	32	24780	48880	6200
	HK35X45X12		31	35	45	12	24870	48880	6200
36	HK36x42x12		23	36	42	12	15000	21000	6200
38	HK38x48x30		102	38	48	30	16100	24100	6000
40	HK4012	27941/40	31.1	40	47	12	14000	24300	6300
	BK4012	25941/40	38.2	40	47	12	14000	24300	6300

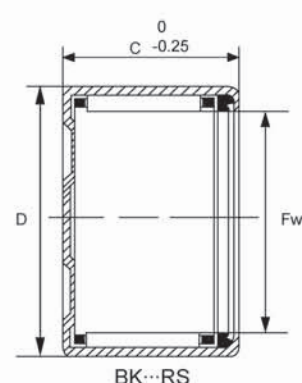
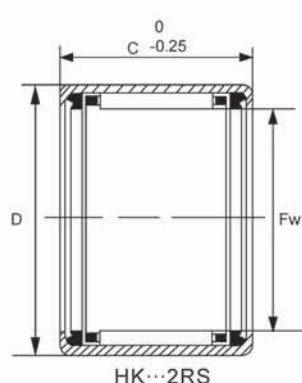
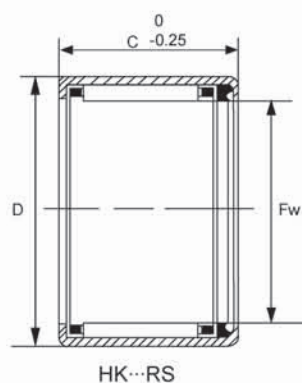


Drawn Cup Needle Roller Bearings

Shaft Diameter	Bearing Designation		Mass Approx	Boundary Dimensions			Basic Load Rating		Limiting Speed
	Current	Original Code		Fw	D	C	Cr Dynamic	Cor Static	Oil
mm			g		mm		N		rpm
40	HK4016	47941/40	41.4	40	47	16	20000	38500	6300
	BK4016	45941/40	51	40	47	16	20000	38500	6300
	HK4020	67941/41	51.8	40	47	20	25500	52000	6300
	BK4020	65941/40	62	40	47	20	25500	52000	6300
	HK40x50x32	7492/40	114.3	40	50	32	23000	42000	6000
	HK40x50x38	7943/40	130.8	40	50	38	24100	43000	6000
45	HK4512	27941/45	34.8	45	52	12	12900	22500	5800
	BK4512	25941/45	45	45	52	12	12900	22500	5800
	HK4516	47941/45	46.2	45	52	16	19300	38000	5800
	BK4516	45941/45	56	45	52	16	19300	38000	5800
	HK4520	67941/45	56	45	52	20	22000	51000	5800
	BK4520	65941/45	72	45	52	20	22000	51000	5800
	HK45x55x38	7943/45	135	45	55	38	27600	61000	5300
50	HK50x57x16		51.2	50	57	16	15200	32500	5300
	HK5012	27941/50	44.2	50	58	12	23600	57200	5300
	HK5020	57941/50	72	50	58	20	28000	60000	5300
	BK5020	55941/50	87.3	50	58	20	28000	60000	5300
	HK5025	7943/50	90.1	50	58	25	34500	80000	5300
	BK5025	5943/50	109	50	58	25	34500	80000	5300
	HK50X60X38		140	50	60	38	27770	63100	4600
55	HK5520	57941/55	78	55	63	20	29500	59900	4600
	BK5520	55941/55	93.8	55	63	20	29500	59900	4600
	HK5525	77941/55	109	55	63	25	33200	69980	4600
	HK5528	87941/55	111	55	63	28	39030	98000	4600
	BK5528	85941/55	132	55	63	28	39090	98000	4600
60	HK6012		49.2	60	68	12	12400	29000	4100
	BK6012		77	60	68	12	12400	29000	4100
	HK6020	5794/60	86	60	68	20	30500	72000	4100
	BK6020	55941/60	105	60	68	20	30500	72000	4100
	HK6032	87941/60	136	60	68	32	50000	131000	4100
	BK6032	8594/60	164	60	68	32	50000	131000	4100

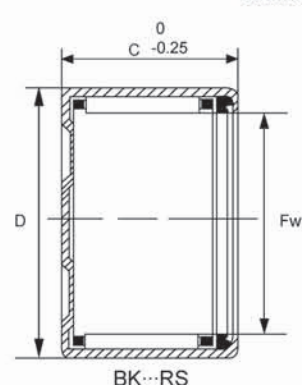
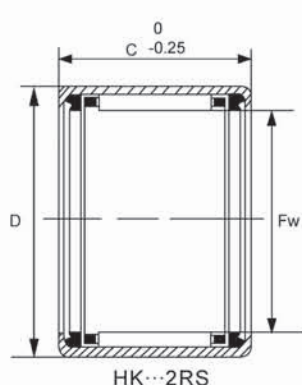
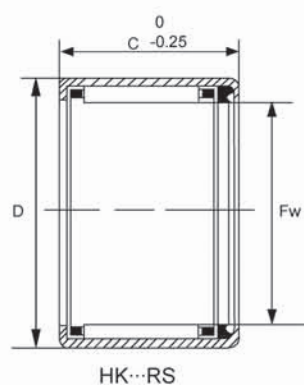


Bearing Designation		Mass Approx	Boundary Dimensions			Basic Load Rating		Limiting Speed Oil
Shaft Diameter	Original Code		Fw	D	C	Cr	Dynamic Cor Static	
mm	Current	g		mm			N	rpm
Inch Series								
7.94	BA55	3.4	7.94	12.7	7.92	1917	1703	38400
9.52	M681	4.3	9.52	14.29	12.7	4581	5515	29900
	BHA68	5	9.52	15.88	12.7	6004	6093	30000
12.7	BA87	6.6	12.7	17.46	11.13	1976	2500	18000
15.88	SCE108	12	15.88	22.22	12.7	8559	12060	18000
	SCH1012	20	15.88	22.22	19.05	10800	13440	18000
	SCE1012	20	15.88	22.22	19.05	10800	13440	18000
19.05	BA1210	16	19.05	25.4	15.88	11386	16413	16000
	BA1212	21	19.05	25.4	19.05	14144	21706	16000
	SCE1212	21	19.05	25.4	19.05	14144	21706	16000
	SCE1214PP	23	19.05	25.4	22.22	16140	23800	16000
	55000X22	36	19.05	30.17	47.6	18000	25000	16000
22.22	BA1816	29	22.22	34.92	25.4	20700	34500	13000
25.4	SCE16PP	44	25.4	31.75	25.4	22729	43501	11000

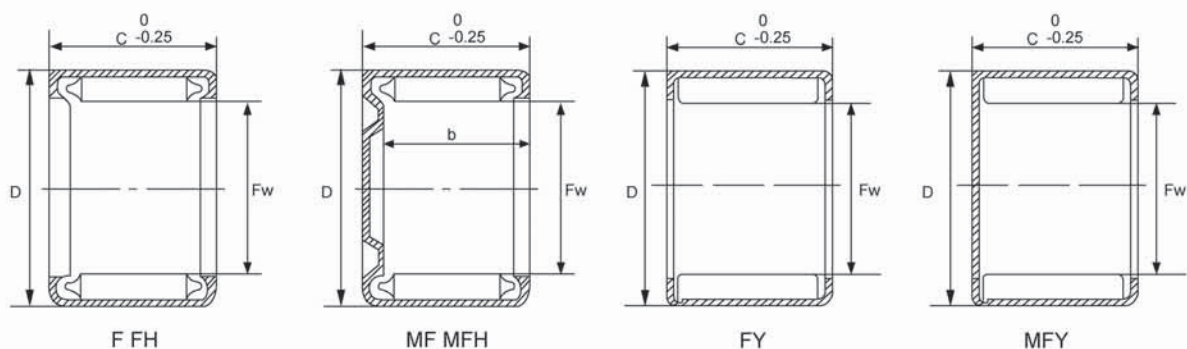


Sealed Drawn Cup Needle Roller Bearings

Shaft Diameter	Bearing Designation		Mass Approx	Boundary Dimensions			Basic Load Rating		Limiting Speed
	Current	Fw		D	C	Cr Dynamic	Cor Static	Oil	
								mm	g
8	HK0810 RS	2.9	8	12	10	2250	2100	19000	
	HK0812 2RS	3.5	8	12	12	2250	2100	19000	
9	HK09x13x12 RS	4	9	13	12	3800	4300	19000	
10	HK1012 RS	4.2	10	14	12	4100	5000	19000	
	HK1014 2RS	5.2	10	14	14	4100	5000	15000	
12	HK1214 RS	10.7	12	18	14	6100	7000	15000	
	HK1216 2RS	11.5	12	18	16	6100	7000	12000	
13	HK13x19x12 RS	8.9	13	19	12	6800	7580	12000	
14	HK1414 RS	12	14	20	14	6100	7500	13000	
	HK1416 2RS	14	14	20	16	6100	7500	11000	
	BK1414 RS	14.1	14	20	14	6100	7500	11000	
15	HK1514 RS	12.6	15	21	14	6800	8800	11000	
	HK1516 2RS	14.3	15	21	16	6800	8800	10000	
	BK1514 RS	14.4	15	21	14	6800	8800	10000	
	HK1518 RS	16	15	21	18	9500	11400	10000	
	HK1520 2RS	18	15	21	20	9500	11400	10000	
16	HK1614 RS	15.1	16	22	14	7200	9200	10000	
	HK1616 2RS	15.1	16	22	16	7200	9200	10000	
	BK1614 RS	15.3	16	22	14	7200	9200	10000	
	HK1620 2RS	16.8	16	22	20	9900	12300	10000	
	HK1625 2RS		16	22	25	9900	12300	10000	
17	HK17x25x14 RS	17.7	17	25	14	8000	9800	10000	
	HK17x25x15.5 RS	20	17	25	15.5	9320	10400	13000	
	HK17x25x18 RS	23.5	17	25	18	10500	12600	13000	
	HK17x25x20 RS	26.2	17	25	20	11600	13200	13000	
18	HK1814 RS	15.1	18	24	14	7800	9900	13000	
	HK1816 2RS	17	18	24	16	7800	9900	9200	
20	HK2012 RS	11.7	20	26	12	9500	11900	9200	
	HK2016 2RS	18.8	20	26	16	8000	10100	9000	
	HK2018 RS	21.4	20	26	18	12700	20100	8200	
	HK2020 2RS	23.5	20	26	20	12700	20100	7800	
	BK2018 RS	24.4	20	26	18	12700	20100	7800	
	HK20x29x18 RS	28.8	20	29	18	8700	9980	7800	
22	HK2212 RS	14	22	28	12	9310	10000	9000	

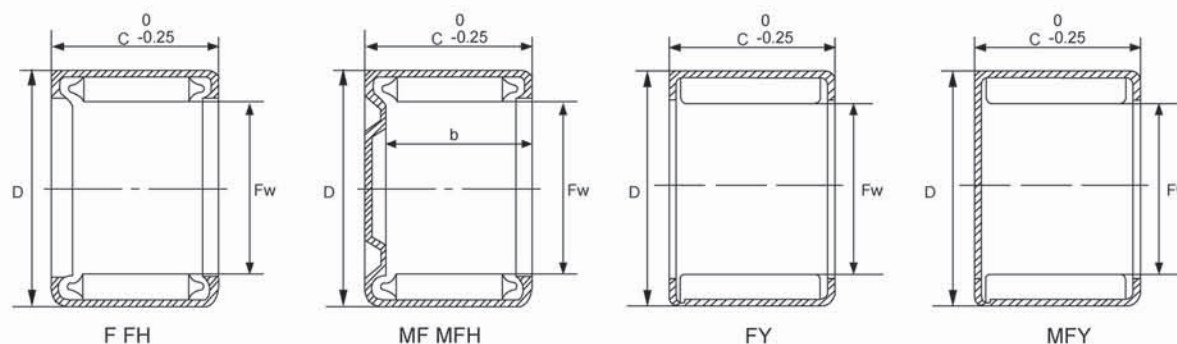


Shaft Diameter	Bearing Designation	Mass Approx	Boundary Dimensions			Basic Load Rating		Limiting Speed
			Fw	D	C	Cr Dynamic	Cor Static	Oil
	Current	g		mm		N		rpm
22	HK2214 RS	18.3	22	28	14	9000	12400	7800
	HK2216 2RS	20.3	22	28	16	9000	12400	7800
	HK2218 RS	23.5	22	28	18	10400	20100	7800
	HK2220 2RS	25.5	22	28	20	10400	20100	7800
25	HK2516 2RS	27.3	25	32	16	9800	13200	6900
	HK2518 RS	31	25	32	18	13600	20000	6900
	HK2520 2RS	33.1	25	32	20	13600	20000	6900
	BK2518 RS	35.3	25	32	18	13600	20000	6900
	HK2524 2RS	39.7	25	32	24	17900	30000	6900
	HK2530 2RS	47.3	25	32	30	24500	43000	6900
28	HK2820 2RS	36.9	28	35	20	11400	22500	5300
30	HK3016 2RS	28.5	30	37	16	10100	16200	5300
	HK3018 RS	36.6	30	37	18	16200	26000	5300
	HK3020 2RS	39.1	30	37	20	16200	26000	5300
	HK3024 2RS	49.7	30	37	24	21000	38500	5300
35	HK3516 2RS	36.4	35	42	16	10100	20300	4900
	HK3518 RS	37.4	35	42	18	16700	30500	4900
	HK3520 2RS	41.1	35	42	20	16700	30500	4900
40	HK4016 2RS	41.2	40	47	16	11000	21300	4200
	HK4018 RS	47.3	40	47	18	19000	30500	4200
	HK4020 2RS	50.2	40	47	20	19000	30500	4200
45	HK4518 RS	54.2	45	52	18	20300	41000	3800
	HK4520 2RS	57.4	45	52	20	20300	41000	3800
50	HK5022 RS	77.2	50	58	22	30000	61000	3200
	HK5024 2RS	84	50	58	24	30000	61000	3200

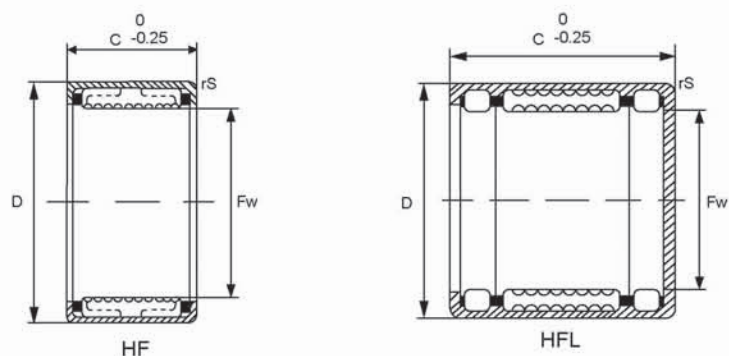


Drawn Cup Full Complement Needle Roller Bearings

Shaft Diameter	Bearing Designation		Mass Approx	Boundary Dimensions			Basic Load Rating		Limiting Speed
	Current	Original Code		Fw	D	C	Cr Dynamic	Cor Static	
mm			g		mm		N		rpm
6	F-0608	30941/6	2.5	6	10	8	3080	5800	12000
6.35	F6.35x11.11x11.13	B-47	3.2	6.35	11.11	11.13	3500	6050	12000
	MF6.35x11.11x11.13	M-471	4.1	6.35	11.11	11.13	3500	6050	12000
8	F-0810	50941/8	3.7	8	12	10	4050	7150	13000
	FH-0810	941/8	7	8	14	10	5200	7150	7400
	FH-0812	942/8	9	8	14	12	4550	7150	7400
9	F-0910	50941/9	4	9	13	10	4900	8050	12000
	FH0910	941/9	6	9	15	10	8000	11500	7100
	FH9x15x13	942/9	8	9	15	13	8560	12800	7100
9.52	F9.52x14.29x12.7	B-68	75	9.52	14.29	12.70	9000	13300	7100
10	F-1010	50941/10	4.2	10	14	10	5700	9350	11000
	FH-1010	941/10	6.5	10	16	10	6350	10800	11000
	F10x16x15	942/10	12	10	16	15	6890	11500	7100
		943/10		10	16	17	6500	11000	7000
12	F-1212	60941/12	6	12	16	12	6380	10900	7100
	F12x17x12	941/12	8	12	17	12	8400	11900	7100
	F12x17x15	942/12	10.5	12	17	15	9000	12500	7100
	F12x17x18	943/12	13	12	17	18	9800	13500	7100
15	F15x20x12	941/15	10	15	20	12	8400	11900	7100
	F15x20x16	942/15	13.6	15	20	16	9500	12800	7100
	F15x20x20	943/15	17.2	15	20	20	10500	16000	7100
	FY15x20x20	Y152020	20	15	20	20	10500	16000	7100
	F-1512	30941/15	12	15	21	12	9700	15900	8100
16	F-1616	50941/16	17	16	22	16	14100	25900	7700
17	F-1712	30941/17	13	17	23	12	10600	21600	7300
	F-1714	941/17	15	17	23	14	12500	22500	7300
	F-1718	942/17	21	17	23	18	13800	24800	7300
		943/17		17	23	22	13500	24000	7100
18	F1816	50941/18	18	18	24	16	15000	29100	6900
20	F-2014	941/20	17	20	26	14	15800	40500	6900
	F-2020	942/20	26	20	26	20	18800	42500	6900
	F20x26x25	943/20	33	20	26	25	20500	35500	6300



Shaft Diameter	Bearing Designation		Mass Approx	Boundary Dimensions			Basic Load Rating		Limiting Speed
	Current	Original Code		Fw	D	C	Cr Dynamic	Cor Static	Oil
25	F-2516	941/25	28	25	32	16	18700	37900	5100
	F-2522	942/25	40	25	32	22	11000	16500	5100
	F25x32x25	943/25	43	25	32	25	11500	18500	5100
	F25x33x08	Y253308	16.7	25	33	8	12200	16800	4300
28	F-2820	60941/28	118	28	35	20	25700	58300	4600
30	F-3020	60941/30	42	30	37	20	26800		
	MF-3020	65941/30	48	30	37	20	26800	62500	4300
	F30x38x16	941/30	37.5	30	38	16	25500	57500	4600
	F30x38x24	942/30	37.5	30	38	24	28800	64500	4300
	F30x38x32	943/30	81.5	30	38	32	34500	78900	4300
32	F-3216	40941/32	35	32	39	16	25800	61500	4300
35	F3520	60941/35	49	35	42	20	24000	69100	3700
	F35x43x16	941/35	41	35	43	16	23500	68000	3700
	F35x43x25	942/35	72	35	43	25	38700	86200	3200
	F35x43x32	943/35	90	35	43	32	40500	97800	3200
40	F-4020	60941/40	56	40	47	20	30300	82600	3300
	FH4032	942/40	88	40	50	32	42500	108000	2600
	MFH-4032	86942/40	95	40	50	32	42500	108000	2600
	FH40x50x38	943/40	105	40	50	38	44800	118500	2600
45	F-4520		62	45	52	20	30400	90100	2900
	FH45x55x38	943/45	140	45	55	38	45800	128000	2900
50	F-5020	50941/50	78	50	58	20	35800	98000	2600
	FH50x60x38	943/50	145	50	60	38	50500	145800	2600
60	F60x68x40	943/60	185	60	68	40	50200	145000	2600
Tolerance of width: 0/-0.25mm. Special tolerance requirment shall be indicated on order									



Drawn Cup Roller Clutch Bearing

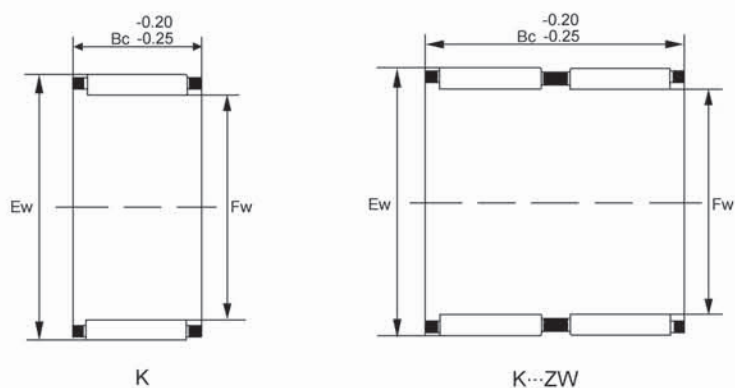
Shaft Diameter	Bearing Designation		Boundary Dimensions				Mass Approx	Driving moment	Limiting Speed	
	Current	Original Code	Fw	D	C	Edgo			Grease	Oil
				mm					rpm	
4	HF0406	HF-0406	4	8	6	0.3	1	0.34	34000	14000
6	HF0612	HF-0612	6	10	12	0.3	3	1.78	23000	13000
8	HF0812		8	12	12	0.3	3.5	3.15	17000	11000
10	HFL0822		8	12	22	0.3	6.3	3.15	17000	12000
	HF1012		10	14	12	0.3	4	5.3	14000	11000
12	HF1216	HF1216	12	18	16	0.3	10.5	12.2	10000	7000
	HFL1226		12	18	26	0.3	18	12.2	10000	7000
14	HF1416		14	20	16	0.3	13	17.3	9500	8000
	HFL1426		14	20	26	0.3	20.3	17.3	9500	8000
16	HF1616		16	22	16	0.3	14	20.5	8500	7500
	HFL1624		16	22	24	0.3	19	20.5	8500	7500
	HFL1624.5		16	22	24.5	0.3	20	20.5	8500	7500
	HFL1626		16	22	26	0.3	22	20.5	8500	7500
18	HF1816		18	24	16		15.5	24.1	7500	7500
	HFL1826		18	24	26		24.4	24.1	7500	7500
20	HF2016		20	26	16		17	28.5	7000	6500
	HFL2016		20	26	26		27	28.5	7000	6500
25	HF2520		25	32	20		30.9	66	5500	5500
	HFL2530		25	32	30		44	66	5500	5500
30	HF3020		30	37	20		36	90	4500	4500
	HFL3030		30	37	30		51	90	4500	4500
35	HF3520		35	42	20		40	121	3900	3900
	HF3530		35	42	30		58	121	3900	3900

Radial Needle Roller and Cage Assemblies

Products Scope	SFT supply the following bearings
Series	Structure explanation
K	Single row needle and cage assemblies
K··ZW	Double row needles and cage assemblies
K··D	Single row split type needle and assemblies
K··ZWD	Double row split type needles and cage assemblies

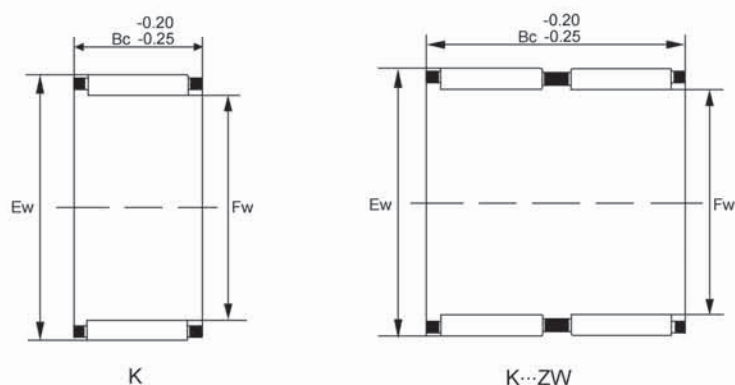
Radial needle roller and cage assemblies work as a separate bearing part, with high load carry capacity & high hardness.
Every needle is accurately guided & retained by the cage.

Structure	designations(GB5846-86)	designations(GB/T272-93)
Single row	K $\frac{OO}{Fw}$ $\frac{OO}{Ew}$ $\frac{OO}{Bc}$	K $\frac{OO}{Fw}$ X $\frac{OO}{Ew}$ X $\frac{OO}{Bc}$
Double row	KKOOOOOO	KOOXOOXOOZW
Single row split type	KS000000	KOOXOOXOOD
Double row split type	KKSO00000	KOOXOOXOOZWD

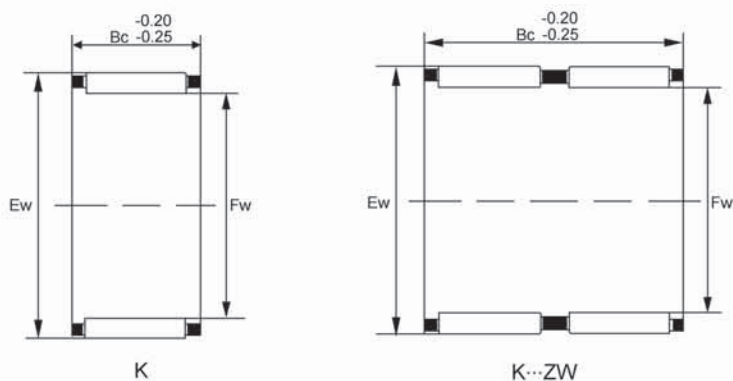


Radial Needle Roller and Cage Assemblies

Shaft Diameter	Bearing Designation		Mass Approx	Boundary Dimensions			Basic Load Rating		Limiting Speed
	Current	Original Code		Fw	D	C	Cr Dynamic	Cor Static	
5	K5x8x8 TN	29241/5	0.7	5	8	8	2300	1880	37000
	K5x8x10 TN	39241/5	0.9	5	8	10	2800	2450	37000
6	K6x9x8 TN	29241/6	0.8	6	9	8	2560	2240	35000
	K6x9x10 TN	39241/6	1	6	9	10	3300	3100	35000
	K6x10x13 TN	49241/6	1.3	6	10	13	3500	2800	33000
7	K7x10x8 TN	29241/7	0.9	7	10	8	2750	2550	32000
	K7x10x10 TN	39241/7	1.1	7	10	10	3350	3400	32000
8	K8x11x8 TN	29241/8	1.1	8	11	8	3000	2900	30000
	K8x11x10 TN	39241/8	1.7	8	11	10	3830	3950	30000
	K8x11x13 TN	49241/8	1.8	8	11	13	5000	5700	30000
	K8x12x10 TN	29242/8	1.3	8	12	10	4900	4600	30000
9	K9x12x10 TN	39241/9	1.5	9	12	10	4200	4700	30000
	K9x12x13 TN	49241/9	1.9	9	12	13	5500	6700	30000
10	K10x13x10 TN	39241/10	1.6	10	13	10	4500	5250	27000
	K10x13x13 TN	39241/10	2.1	10	13	13	6000	7600	27000
	K10x13x16 TN		2.2	10	13	16	6300	7800	76000
	K10x14x10 TN	29242/10	2.9	10	14	10	7000	7900	27000
	K10x14x13 TN	39242/10	4.3	10	14	13	8000	9100	26000
	K10x16x12 TN	19244/10	3.7	10	16	12	7000	9300	27000
12	K12x15x9 TN		2.7	12	15	9 4	120	5210	25000
	K12x15x10 TN	39241/12	1.9	12	15	10	4320	5730	25000
	K12x15x13 TN	49241/12	2.4	12	15	13	6000	8100	25000
	K12x16x8 TN	19242/12	2.9	12	16	8	4200	4700	25000
	K12x16x10 TN	29242/12	3.4	12	16	10	6000	6900	25000
	K12x16x13 TN	39242/12	3.8	12	16	13	7900	9200	25000
	K12x17x13 TN	59242/12	4.4	12	17	13	9300	10000	24000
	K12x18x12 TN	19244/12	5	12	18	12	9800	8000	24000
	K12x15x20 TN	K12x15x20 TN	3.8	12	15	20	8200	12000	25000
14	K14x17x10		4	14	17	10	5100	6800	23000
	K14x17x17		6.8	14	17	17	9300	14000	23000
	K14x18x10	29242/14	4.8	14	18	10	6800	8300	23000
	K14x18x13	39242/14	6.3	14	18	13	8100	9800	23000
	K14x18x14		6.8	14	18	14	9200	12000	23000
	K14x18x15	49242/14	7.3	14	18	15	10000	13000	23000

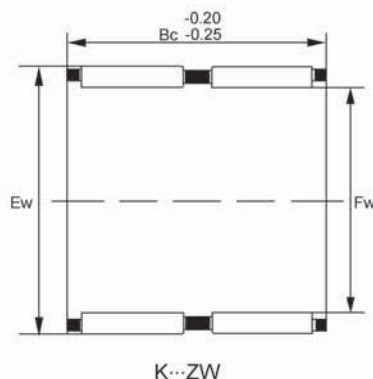
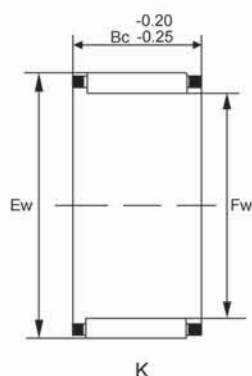


Shaft Diameter	Bearing Designation		Mass Approx	Boundary Dimensions			Basic Load Rating		Limiting Speed
	Current	Original Code		Fw	D	C	Cr Dynamic	Cor Static	Oil
mm			g		mm		N		rpm
14	K14x18x17	59242/14	8.1	14	18	17	10500	13900	23000
	K14x20x12	19243/14	8.6	14	20	12	9900	10500	22000
15	K15x18x14		5.3	15	18	14	7500	11000	23000
	K15x18x17		6.4	15	18	17	9600	15900	23000
	K15x19x10	29242/15	5.1	15	19	10	7200	9000	22000
	K15x19x13	39241/15	7	15	19	13	8300	9800	22000
	K15x19x17	59241/15	8.8	15	19	17	10300	15000	22000
	K15x19x24 ZW	79241/15	10.5	15	19	24	12800	20100	22000
	K15x20x13	29242/15	8.9	15	20	13	9700	11000	22000
	K15x21x12	19243/15	10	15	21	12	10000	13000	22000
	K15x21x15	39242/15	13	15	21	15	13800	16000	22000
	K15x21x21		18.2	15	21	21	18000	24000	22000
16	K16x20x10	29241/16	5.7	16	20	10	7600	9700	22000
	K16x20x13	39241/16	7.1	16	20	13	8700	11300	22000
	K16x20x17	59241/16	9.2	16	20	17	11200	16300	22000
	K16x21x10	19242/16	3.7	16	21	10	9000	12000	22000
	K16x22x12	19243/16	10.4	16	22	12	11000	12000	21000
	K16x22x13		11.9	16	22	13	12000	13400	21000
	K16x22x16		13.7	16	22	16	14300	17000	21000
	K16x22x20	49243/16	16.7	16	22	20	18000	22300	21000
	K16x23x14	19244/16	20	16	23	14	19000	21000	19000
	K16x24x20	19245/16	24.9	16	24	20	21100	23000	20000
17	K17x21x10	29241/17	5.6	17	21	10	7900	10100	21000
	K17x21x13	39241/17	7.5	17	21	13	10000	14100	21000
	K17x21x17	59241/17	9.5	17	21	17	12000	17400	21000
	K17x23x14	29243/17	11.5	17	23	14	11000	15000	21000
18	K18x22x10	29241/18	6.1	18	22	10	8200	9900	20000
	K18x22x13	39241/18	7.7	18	22	13	9000	12100	20000
	K18x22x17	59241/18	10.8	18	22	17	11900	17600	20000
	K18x24x12	19243/18	11.6	18	24	12	11200	12900	20000
	K18x24x13		12.6	18	24	13	12900	14900	20000
	K18x24x13.5		13	18	24	13.5	12900	14900	20000
	K18x24x20	49243/18	19	18	24	20	20000	26500	20000
	K18x25x14		14.9	18	25	14	16500	18800	20000

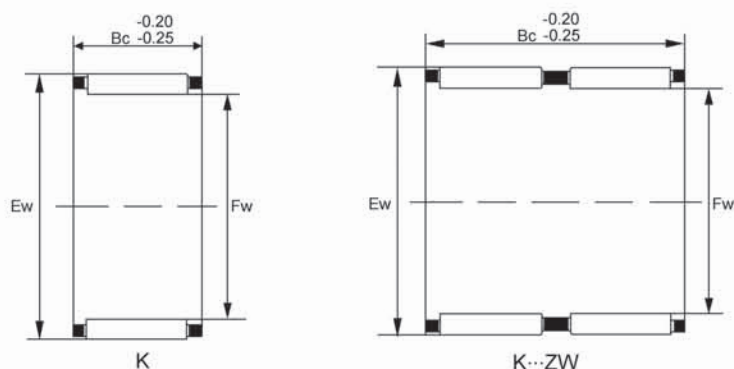


Radial Needle Roller and Cage Assemblies

Shaft Diameter	Bearing Designation		Mass Approx	Boundary Dimensions			Basic Load Rating		Limiting Speed
	Current	Original Code		Fw	D	C	Cr Dynamic	Cor Static	
18	K18x25x22		24.3	18	25	22	22900	28400	20000
	K18x26x14		19	18	26	14	18000	20000	18000
	K18x28x16	19244/18	24	18	28	16	19000	18400	19000
19	K19x23x13		8.2	19	23	13	9300	13000	20000
	K19x23x17		11.1	19	23	17	12000	18600	20000
20	K20x24x10	29241/20	6.5	20	24	10	8700	12100	19000
	K20x24x12		8	20	24	12	9600	13800	19000
	K20x24x13	39241/20	8.9	20	24	13	9600	13800	19000
	K20x24x17	59241/20	11.2	20	24	17	12400	20000	19000
	K20x26x12	19243/20	13.2	20	26	12	13100	15700	19000
	K20x26x16	K9249/20	17.5	20	26	16	18000	25000	18500
	K20x26x17	39243/20	18.2	20	26	17	18700	25500	19000
	K20x26x20	49243/20	22	20	26	20	20600	28500	29000
	K20x28x20	19245/20	26.8	20	28	20	23400	28000	18000
	K20x28x25	29245/20	36.2	20	28	25	30000	28500	18000
K20x30x30	39245/20	56	20	30	30	35000	41000	18000	
21	K21x25x13		9	21	25	13	9600	14500	19000
	K21x25x17		12	21	25	17	12800	21000	19000
22	K22x26x10	29241/22	7.1	22	26	10	8700	12900	18000
	K22x26x13	39241/22	9.4	22	26	13	10000	15400	18000
	K22x26x17	59241/22	12.1	22	26	17	13100	22100	18000
	K22x27x13	29242/22	10.8	22	27	13	14000	23000	18000
	K22x28x17	39243/22	19.7	22	28	17	19000	26500	18000
	K22x28x23	59243/22	26	22	28	23	20000	27000	19000
	K22x29x16	19244/22	22.2	22	29	16	19500	25000	17000
	K22x30x15 TN		14.4	22	30	15	19600	22900	17000
	K22x30x20	19245/22	28	22	30	20	21000	23500	18900
K22x32x24		43.4	22	32	24	33500	39500	16000	
23	K23x35x16 TN		30	23	35	16	24000	23400	15000
24	K24x28x10		8.1	24	28	10	9400	14300	17000
	K24x28x13		10.1	24	28	13	10500	17000	17000
	K24x28x17	9243/24	13.2	24	28	17	14000	24500	17000
	K24x29x13		13.5	24	29	13	13100	19100	16000
	K24x30x17		21.5	24	30	17	19000	27000	16000

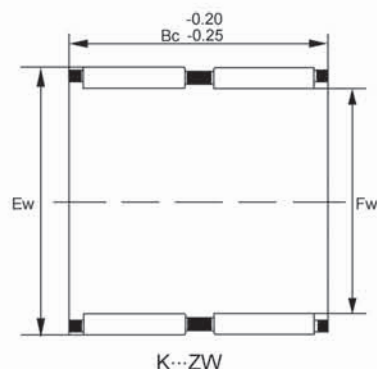
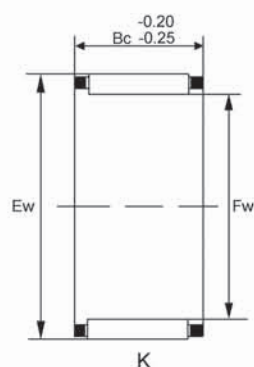


Shaft Diameter	Bearing Designation		Mass Approx	Boundary Dimensions			Basic Load Rating		Limiting Speed
	Current	Original Code		Fw	D	C	Cr Dynamic	Cor Static	Oil
24	K24x30x31		39.1	24	30	31	27000	43000	16000
25	K25x29x10	29241/25	8.3	25	29	10	9700	14900	16000
	K25x29x13	39241/25	10.4	25	29	13	10800	17900	16000
	K25x29x17	59241/25	13.7	25	29	17	14500	25500	16000
	K25x30x13	29242/25	12.9	25	30	13	14100	21300	16000
	K25x30x20	59242/25	20.5	25	30	20	21100	28000	16000
	K25x30x25		21	25	30	25	21700	40400	15000
	K25x30x26	52.436	21.6	25	30	26	20100	26500	15000
	K25x31x17	39243/25	21.8	25	31	17	19000	28000	16000
	K25x31x21	39243/25	26.2	25	32	21	24100	37500	16000
	K25x32x16	19244/25	24.5	25	32	16	20500	27500	15000
	K25x33x20	19245/25	32	25	33	20	28000	37500	15000
	K25x33x24	29245/25	38.7	25	33	24	33900	46500	15000
	K25x34x18		32	25	34	18	48000	67000	15000
	K25x35x30	39245/25	65.5	25	35	30	46500	61500	14000
	K25x30x26 ZW		27	25	30	26	21000	35000	14000
26	K26x30x10		9	26	30	10	9500	15500	16000
	K26x30x13		11.4	26	30	13	11100	18700	16000
	K26x30x17		15	26	30	17	14700	27000	16000
	K26x31x13		9.9	26	31	13	12400	18400	15000
	K26x30x22		12.3	26	30	22	15200	28000	16000
27	K27x32x17		29	27	32	27	16000	34000	17000
28	K28x32x16.5		16	28	32	16.5	15000	32400	14000
	K28x32x17	9242/28	18.2	28	32	17	15000	32400	14000
	K28x33x13	29241/28	15.2	28	33	13	14800	23600	14000
	K28x33x13	29241/28	15.2	28	33	13	14800	23600	14000
	K28x33x17	49241/28	19.5	28	33	17	19100	33000	14000
	K28x33x27 TN	79241/28	19	28	33	27	22800	40500	14000
	K28x34x17	39242/28	24.2	28	24	17	21300	35000	14000
	K28x35x16	19243/28	26	28	35	16	21000	29000	14000
	K28x35x18		31	28	35	18	23500	33500	14000
	K28x35x20	29243/28	35	28	35	20	24000	34000	14000
	K28x35x27		47	28	35	27	34500	54500	14000
	K28x36x16		40	28	36	16	34000	47000	11000

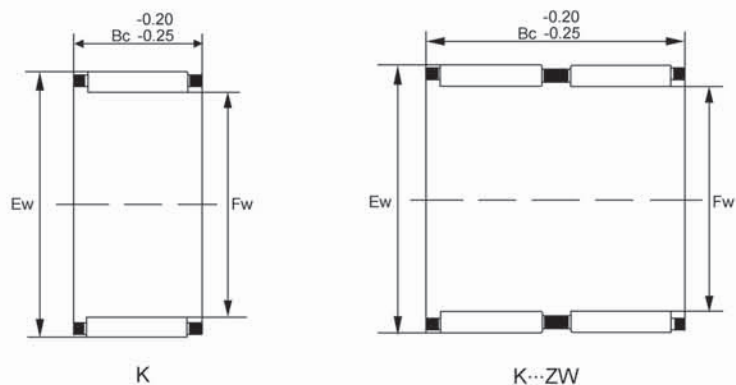


Radial Needle Roller and Cage Assemblies

Shaft Diameter	Bearing Designation		Mass Approx	Boundary Dimensions			Basic Load Rating		Limiting Speed
	Current	Original Code		Fw	D	C	Cr Dynamic	Cor Static	
28	K28x40x18		50	28	40	18	33000	36500	12000
	K28x40x25		71	28	40	25	45000	54500	12000
30	K30x34x13		14.6	30	34	13	11800	21200	13000
	K30x35x13	29241/30	16.3	30	35	13	15100	25000	13000
	K30x35x17	49241/30	21.3	30	35	17	19100	33500	13000
	K30x35x27	19241/30	33.3	30	35	27	30000	58500	13000
	K30x37x16	19243/30	26.4	30	37	16	22500	33000	13000
	K30x38x25	29244/30	43	30	38	25	16000	39000	13000
	K30x40x18		44	30	40	18	31500	39500	12000
	K30x40x30	49243/30	78	30	40	30	48500	68500	13000
	K30x35x26		32	30	35	26	23500	43500	12000
32	K32x37x13	29241/32	18.3	32	37	13	15000	25000	12000
	K32x37x17	49241/32	22.4	32	37	17	19400	35000	12000
	K32x37x27	19241/32	36.7	32	37	27	29500	59500	12000
	K32x37x28 TN		22.3	32	37	28	23100	43000	12000
	K32x38x16		25	32	38	16	21000	34000	12000
	K32x38x20	49242/32	31	32	38	20	26000	44500	12000
	K32x38x26 TN		25.2	32	38	26	27000	46500	12000
	K32x39x16	19243/32	36.7	32	39	16	23500	35000	12000
	K32x39x18		37.2	32	39	18	26000	40500	12000
	K32x40x20	19244/32	48	32	40	20	37000	40500	12000
	K32x40x36		73	32	40	36	53500	91500	12000
	K32x45x32		119	32	46	32	65500	82500	11000
	K32x40x42 TN		77.1	32	40	42	49500	83500	12000
35	K35x40x13	29241/35	18.8	35	40	13	15800	27500	11000
	K35x40x17	49241/35	25.3	35	40	17	20300	38000	11000
	K35x40x25	29244/35	31	35	40	25	29000	59500	11000
	K35x40x27 TN	19241/35	23.4	35	40	27	24500	48000	11000
	K35x40x27	79241/35	28	35	40	27	27800	62100	11000
	K35x40x30	39244/35	43	35	40	30	25000	49500	11000
	K35x42x16	19243/35	34	35	42	16	23900	37000	11000
	K35x42x18		39.2	35	42	18	27000	42500	11000
	K35x42x30	49243/35	62.4	35	42	30	38500	67500	11000
	K35x43x18		38	35	43	18	28000	41500	11000

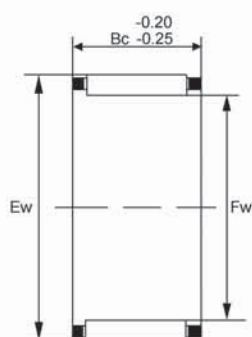


Shaft Diameter	Bearing Designation		Mass Approx	Boundary Dimensions			Basic Load Rating		Limiting Speed
	Current	Original Code		Fw	D	C	Cr Dynamic	Cor Static	Oil
35	K35x42x30	49243/35	62.4	35	42	30	38500	67500	11000
	K35x43x18		38	35	43	18	28000	41500	11000
	K35x45x20		55.5	35	45	20	36500	49500	10000
	K35x45x30	29245/35	80	35	45	30	52500	78500	10000
	K35x45x49		120	35	45	49	81500	13400	10000
	K35x40x30 ZW		48	35	40	30	31500	65500	11000
	K35x42x20 ZW	29243/35	41	35	42	20	29500	48500	11000
36	K36x41x30		52	36	41	30	23000	43000	11000
	K36x42x16		50	36	42	16	24000	42000	11000
37	K37x42x17		25.8	37	42	17	21900	42500	10000
	K37x42x27		40.7	37	42	27	31500	67500	10000
	K37x45x26		60.5	37	45	26	43500	73500	10000
38	K38x43x17	49241/38	26.9	38	43	17	20000	38000	10000
	K38x43x27	79241/38	43.2	38	43	27	31000	67500	10000
	K38x46x20	19244/38	46	38	46	20	35000	56500	10000
	K38x46x32		72.7	38	46	32	54500	98500	10000
39	K39x44x24		38	39	44	24	28000	58500	10000
	K39x44x46 ZW		29.5	39	44	26	27000	55500	10000
40	K40x44x13		20	40	44	13	13500	28000	10000
	L40x45x13	29241/40	21.5	40	45	13	17100	32000	10000
	K40x45x17	49241/40	27.4	40	45	17	20900	41000	10000
	K40x45x21		36.5	40	45	21	24400	49500	10000
	K40x45x27	19241/40	46	40	45	27	32500	72500	10000
	K40x46x17	39242/40	30	40	46	17	24500	44500	9000
	K40x47x18		45.2	40	47	18	29000	49500	9000
	K40x47x20	29243/40	42	40	47	20	32000	56500	9000
	K40x48x20	19244/40	57.5	40	48	20	35500	58500	9000
	K40x45x30 ZW		48	40	45	30	26000	53500	9000
	K40x47x13	29241/42	22.5	42	47	13	17300	33000	9000
42	K42x47x17	49241/42	31.1	42	47	17	21100	42500	9000
	K42x47x25 TN		25.4	42	47	25	27000	57500	9000
	K42x47x27	79241/42	46.6	42	47	27	33000	74500	9000
	K42x48x35	79242/42	60	42	48	35	35000	76000	9000

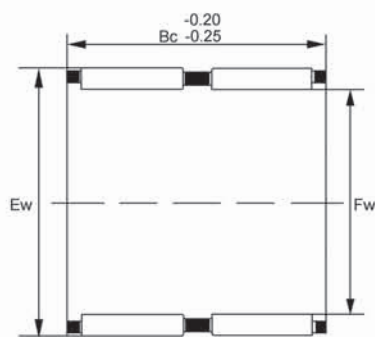


Radial Needle Roller and Cage Assemblies

Shaft Diameter	Bearing Designation		Mass Approx	Boundary Dimensions			Basic Load Rating		Limiting Speed
	Current	Original Code		Fw	D	C	Cr Dynamic	Cor Static	Oil
mm			g		mm		N		rpm
42	K42x50x18	19244/42	53	42	50	18	31000	49500	9000
	K42x50x20		54	42	50	20	34500	56500	9000
	K42x47x30 ZW		54	42	47	30	31000	75500	9000
43	K43x48x17	9249/43	29.3	43	48	17	21000	42500	9000
	K43x48x17		45.7	43	48	27	33000	74500	9000
	K43x50x18		48.5	43	50	18	30500	53500	9000
45	K45x49x19	19244/45	27	45	49	19	17500	40000	8000
	K45x50x17		25.5	45	50	17	22000	45000	8000
	K45x50x27		50	45	50	27	34000	79500	8000
	K45x50x32 TN		45	45	50	32	38000	90500	8000
	K45x52x18		51	45	52	18	31000	56500	8000
	K45x52x21 TN		32.9	45	52	21	39500	57500	8000
	K45x53x20		62.2	45	53	20	28500	66500	8000
	K45x53x21		65	45	53	21	38000	66500	8000
	K45x53x22		68.4	45	53	22	42000	66500	8000
	K45x53x28		78	45	53	28	51500	97500	8000
	K45x59x18 TN		60.5	45	59	18	43500	53500	7000
	K45x59x32		145.5	45	59	32	72500	101500	7000
	K45x59x36		195	45	59	36	75500	108500	7000
	K45x51x36 ZW		85	45	51	36	44500	98500	7000
47	K47x52x17		32	47	52	17	22800	48500	8000
	K47x52x27		50.7	47	52	27	34500	82500	8000
	K47x53x25		53	47	53	25	38000	81500	8000
	K47x55x28		62.4	47	55	28	52500	99500	7500
48	K48x54x19	39242/48	44	48	54	19	30000	60500	7500
	K48x54x25	59242/48	55	48	54	25	31000	91000	7500
50	K50x55x13.5		31	50	55	13.5	17500	36000	7500
	K50x55x17		35	50	55	17	21400	46500	7500
	K50x55x20		39.4	50	55	20	26000	59500	7500
	K50x55x30		59.4	50	55	30	38500	96500	7500
	K50x57x18		53.4	50	57	18	33000	62500	7000
	K50x58x20		64.9	50	58	20	35000	61500	7000
	K50x58x25		81	50	58	25	43500	80500	7000

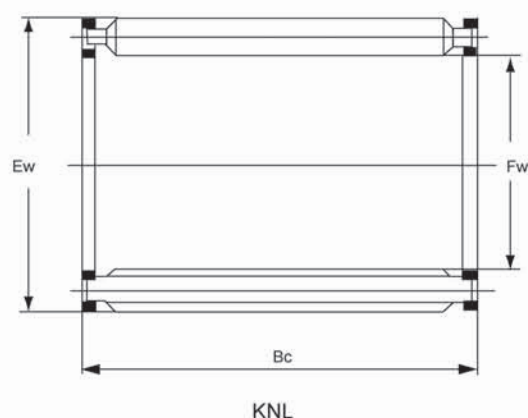


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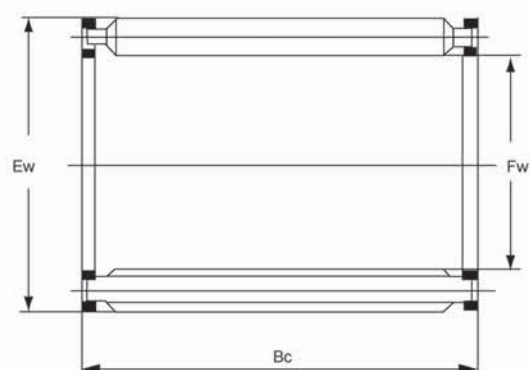
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Shaft Diameter	Bearing Designation		Mass Approx	Boundary Dimensions			Basic Load Rating		Limiting Speed	
	Current	Original Code		Fw	D	C	Cr Dynamic	Cor Static	Oil	
mm			g		mm		N		rpm	
52	K52x57x12		24	52	57	12	17500	36000	7000	
55	K55x60x20	49241/55	43.4	55	60	20	28000	65500	6500	
	K55x60x27		60.5	55	60	27	37500	96500	6500	
	K55x60x30		68.6	55	60	30	40500	10300	6500	
	K55x61x20		56	55	61	20	41000	11000	6500	
	K55x62x18		58.4	55	62	18	35000	69500	6500	
	K55x63x15	19243/55	53	55	63	15	24500	40500	6500	
	K55x63x20		73.3	55	63	20	39500	73500	6500	
	K55x63x25		29243/55	88	55	63	25	49500	99500	6500
	K55x63x32		117	55	63	32	61500	129500	6500	
	K55x60x40 ZW		96.5	55	60	40	48000	132000	6500	
56	K56x61x20		45	56	61	20	27000	64500	6500	
58	K58x63x17		42	58	63	17	21500	63500	6000	
	K58x64x19		53	58	64	19	24500	77500	6000	
	K58x65x18		52	58	65	18	34500	69500	6000	
	K58x65x38 ZW		106	58	65	38	48500	106500	6000	
60	K60x65x20	49241/60	50.5	60	65	20	29000	71500	6000	
	K60x65x30	69241/60	71.2	60	65	30	42000	115500	6000	
	K60x68x20	19243/60	79	60	68	20	43000	84500	5500	
	K60x68x23		94	60	68	23	49000	100500	5500	
	K60x68x27		98	60	68	27	59000	120500	6000	
	K60x75x42		240	60	75	42	11300	19200	5500	
	K60x66x33 ZW		104	60	66	33	45500	111500	6000	
	K60x66x40 ZW		116	60	66	40	57500	150500	5500	
	K60x68x30 ZW		136	60	68	30	44000	87500	5500	
	K60x68x34 ZW		140	60	68	34	47500	95500	5500	
62	K62x70x40 ZW		147.5	62	70	40	65500	145500	5500	
63	K63x70x21		75	63	70	21	45000	100500	5500	
64	K64x70x16		53	64	70	16	27500	59500	5500	
65	K65x70x20	49241/65	49	65	70	20	3000	76500	5500	
	K65x70x30		83	65	70	30	43500	123500	5500	
	K65x73x23		100	65	73	23	45500	93500	5000	
	K65x73x30	39243/65	126	65	73	30	56500	122500	5000	
68	K68x74x20	49241/68	65	68	74	20	35000	83500	5000	



Radial Needle Roller and Cage Assemblies

Shaft Diameter	Bearing Designation		Mass Approx	Boundary Dimensions			Basic Load Rating		Limiting Speed
	Current	Original Code		Fw	Ew	Bc	Cr Dynamic	Cor Static	Oil
mm			g		mm		N		rpm
68	K68x74x30	69241/68	97	68	74	30	46000	117500	5000
	K68x74x38 ZW	79241/68	116	68	74	35	48000	124500	5000
	K68x75x20		120	68	75	32	53500	127500	4500
70	K70x76x20	49241/70	70	70	76	20	35500	85500	4500
	K70x76x30	69241/70	100	70	76	30	51500	138500	4500
	K70x78x25	29243/70	115	70	78	25	51500	111500	4500
	K70x78x30	39243/70	136	70	78	30	59500	134500	4500
	K70x80x30	29244/70	150	70	80	30	72500	147500	4500
	K70x78x46 ZW		230	70	78	46	77500	18800	4500
72	K72x80x20	19243/72	94	72	80	20	41000	84500	4500
73	K73x79x20		69	73	79	20	36500	99500	4500
75	K75x81x20	49241/75	72	75	81	20	37000	93500	4500
	K75x81x30	69241/75	106	75	81	30	51500	142000	4500
	K75x83x23		113	75	83	23	49500	108000	4000
	K75x83x30	39243/75	147	75	83	30	61500	142000	4000
	K75x83x35 ZW	49243/75	165	75	83	35	62500	146500	4000
	K75x83x40 ZW	59243/75	190	75	83	40	72500	176500	4000
80	K80x86x20	49241/80	76	80	86	20	38000	97500	4000
	K80x86x30	69241/80	114	80	86	30	55500	158500	4000
	K80x88x30	39243/80	141	80	88	30	71500	178500	4000
	K80x88x40 ZW	59243/80	204	80	88	40	75500	191500	4000
	K80x88x46 ZW	69243/80	235	80	88	46	87500	23000	4000
85	K85x92x20	29241/85	96	85	92	20	44000	107500	3500
90	K90x97x20	29241/90	103	90	97	20	44500	112500	3000
	K90x98x27		150	90	98	27	60500	149500	3000
	K90x98x30	39242/90	172	90	98	30	67500	171500	3000
95	K95x102x20	29241/95	110	95	102	20	45500	122500	2900
	K95x103x30	39242/95	177	95	103	30	68500	179500	2900
	K95x103x40 ZW	59243/95	250	95	103	40	82500	227500	2900
100	K100x107x21		120	100	107	21	47500	126500	2700
	K100x108x27		176	100	108	27	56500	142500	2700
	K100x108x30	39242/100	190	100	108	30	70500	187500	2700
105	K105x112x21		123	105	112	21	47000	126500	2500
	K105x113x30	39242/105	198	105	113	30	71500	196500	2500
110	K110x117x24		146	110	117	24	55500	157500	2300
	K110x118x30	39244/110	217	110	118	30	77500	218500	2300



KNL

Shaft Diameter	Bearing Designation		Mass Approx	Boundary Dimensions			Basic Load Rating	
	Current	Original Code		Fw	Ew	Bc	Cr Dynamic	Cor Static
mm			g		mm			N
19.051	KNL19.051x28.588x36.75	64903	70	19.051	28.588	36.75		
19.051	KNL19.051x28.588x43.25	64904	80	19.051	28.588	43.25		
20	KNL20x30.2x18	64704	40	20	30.2	18		
20.612	KNL20.612x33.325x35	864904	96	20.612	33.325	35		
20.638	KNL20.638x33.338x36.75	64705	92	20.638	33.338	36.75		
25	KNL25x38x24.7	64805	82	25	38	24.7		
25.4	KNL25.4x41.2x60.4	64905	265	25.4	41.2	60.4		
27.71	KNL27.71x42.825x44.1	64906	183	27.71	42.825	44.1		
28.575	KNL28.575x41.275x34.925	64806	122	28.575	41.275	34.925		
28.578	KNL28.578x41.275x40	94626	155	28.578	41.275	40		
29.975	KNL29.975x42x44.1	64706	160	29.975	42	44.1		
29.975	KNL29.975x42x31	9148/30	81	29.975	42	31		
31.75	KNL31.75x44.45x31.75	864807	115.8	31.75	44.45	31.75		
31.9	KNL31.9x41.46x32	31.9x41.46x32	95	31.9	41.46	32		
32	KNL32x50x45	30643/32	272	32	50	45		
32	KNL32x52x49	64907	329	32	52	49		
37.96	KNL37.96x53.9x36	37.96x53.9x36	208.3	37.96	53.9	36		
40	KNL40x60x30	10643/40	248	40	60	30		
52.412	KNL52.412x71.425x42.3	864911	441	52.412	71.245	42.3		
65	KNL65x89x58.9	864913	943	65	89	58.9		
74	KNL74x106x57.9	864915	1563	74	106	57.9		

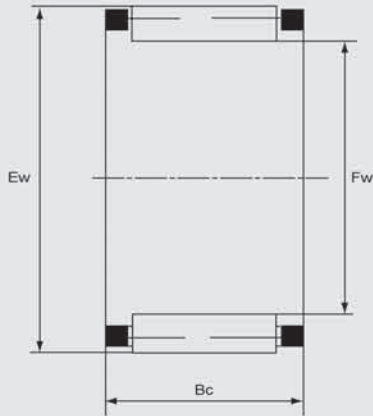
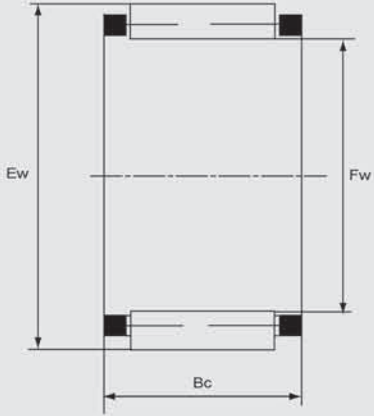
TN=plastic cage(working temperature:120°C continually;180°C shorty)
Tolerance of width:-0.20/-0.55mm. Special tolerance requirment shall be indicated on order
Limiting speed for grease:60% of the one for oil

Radial Needle And Cage Assemblies For Pin Of Connecting Rod

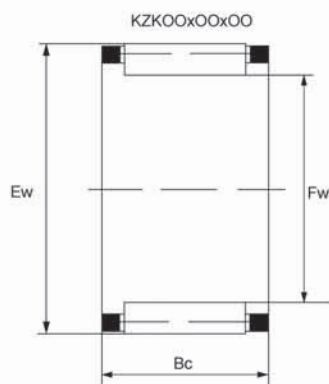
Products Scope	SFT supply the following bearings
Series	Structure explanation
KZK	Needle roller and cage assemblies for crank pin
KBK	Needle roller and cage assemblies for piston pin

Radial needle roller and cage assemblies for pin of connecting rod is mainly used for engine, compressor & other pins of connecting rod.

The boundary dimentions & structure can be according to the different application of customers.

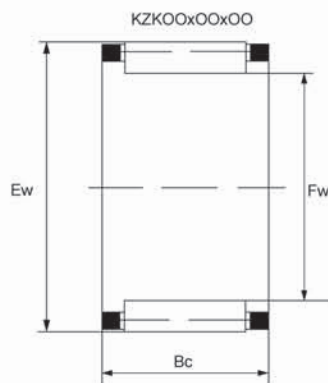
Description	Needle roller and cage assemblies for crank pin	Description	Needle roller and cage assemblies for piston pin
Type	KZK00X00X00	Type	KBK00X00X00
			

KZK	OO	OO	OO	
KBK				
				"Bc"the width of cage, mm
				"Ew" the circumscribed circle diameter of needles, mm
				"Fw" the inscribed circle diameter of needles, mm
				structure designation



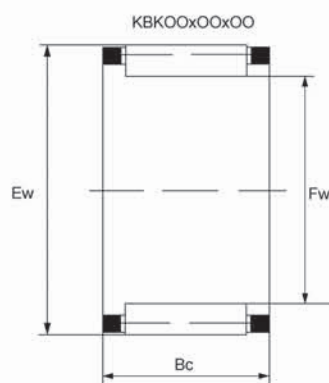
Needle Roller and Cage Assemblies For Crank Pin Bearings

Shaft Diameter	Bearing Designation		Mass Approx	Boundary Dimensions			Basic Load Rating	
	Current	Original Code		Fw	Ew	Bc	Cr Dynamic	Cor Static
mm			g		mm		N	
8	KZK8x12x8	19242/8	1.9	8	12	8	4700	4580
10	KZK10x14x10	29242/10	3.3	10	14	10	5000	51600
12	KZK12x15x13	49241/12	3.6	12	15	13	5300	7400
	KZK12x16x10	29242/12	3.5	12	16	10	6100	6900
	KZK12x16x11		3.7	12	16	11	6200	7100
	KZK12x17x10	19243/12	5	12	17	10	7020	7020
	KZK12x18x10	19242/12	7.8	12	18	10	7400	7200
14	KZK14x18x10	29241/14	4	14	18	10	7100	8500
	KZK14x19x10	19242/14	5.5	14	19	10	7300	7600
	KZK14x19x12		7.5	14	19	12	7460	7950
	KZK14.4x20.4x10		6.5	14.4	20.4	10	8100	7800
15	KZK15x19x9		5	15	19	9	6800	7100
	KZK15x19x10	29241/15	6	15	19	10	7200	8400
	KZK15x20x10	19242/15	7.5	15	20	10	7800	9100
	KZK15x21x10		8.5	15	21	10	8400	10500
	KZK15x21x11		9.5	15	21	11	8500	10700
	KZK15.2x22.2x12		11.5	15.2	22.2	12	8600	11100
16	KZK16x20x10	29241/16	5.8	16	20	10	8200	9200
	KZK16x20x24	79241/16	6.3	16	20	24	8700	9400
	KZK16x21x10	19242/16	5.8	16	21	10	8800	9800
	KZK16x22x12	19243/16	9.5	16	22	12	11000	11900
	KZK16x22x14		11	16	22	14	13200	13930
17	KZK17x21x10	29241/17	6.7	17	21	10	7600	9000
	KZK17x23x11		9.5	17	23	11	8100	11300
18	KZK18x22x10	29241/18	6.9	18	22	10	7600	9800
	KZK18x22x24		7.2	18	22	24	10100	17200
	KZK18x24x11.6	19243/18	10	18	24	11.6	116000	13100
	KZK18x24x12	19243/18	10	18	24	12	11600	13100
	KZK18x24x13.3		12.4	18	24	13.3	9000	10700
	KZK18x24x13.5		12.4	18	24	13.5	9000	10700
	KZK18x24x15	29243/18	14	18	24	15	13200	15500
19	KZK19x25x16	19244/19K	13.9	19	25	16	12100	15500
	KZK19x28x14		20	19	28	14	12100	15000
20	KZK20x25x16		12	20	25	16	9900	12300
	KZK20x26x12	19243/20	9.6	20	26	12	10100	12500
	KZK20x26x14		12	20	26	14	12600	16700
	KZK20x26x17	9246/20	17	20	26	17	12700	17600
22	KZK22x28x13		15	22	28	13	11900	16500
	KZK22x28x14		16	22	28	14	12600	16800
	KZK22xx28x15	29242/22	16.7	22	28	15	13500	18500
	KZK22x28x16	29243/22K	18	22	28	16	14400	20100
	KZK22x29x15		15.2	22	29	15	17800	21800
	KZK22x29x16	19244/22	19	22	29	16	17800	21800

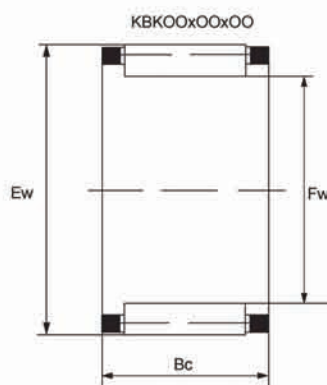


Needle Roller and Cage Assemblies For Crank Pin Bearings

Shaft Diameter	Bearing Designation		Mass Approx	Boundary Dimensions			Basic Load Rating	
	Current	Original Code		Fw	Ew	Bc	Cr Dynamic	Cor Static
					mm		N	
mm			g					
22	KZK22x30x16	SZ-432	25.7	22	30	16	18700	22300
23	KZK23x29x13		12	23	29	13	10000	11300
	KZK23x30x14		19.4	23	30	14	93500	10100
	KZK23x30x16		22	23	30	16	9780	11800
23.1	KZK23.1x28.1x14	29242/23.1	12.9	23.1	28.1	14	10600	15800
24	KZK24x30x15		17	24	30	15	11200	13700
	KZK24x30x16		18	24	30	16	11200	13700
25	KZK25x30x28	69245/25	24	25	30	28	13300	15200
	KZK25x31x12	19243/25K	16	25	31	12	8700	8800
	KZK25x31x17	39243/25	23	25	31	17	9200	9750
	KZK25x31x20	49243/25	26	25	31	20	9700	10600
	KZK25x32x16	19244/25	22.7	25	32	16	18200	23100
	KZK25.1x30.1x14		14.1	25.1	30.1	14	13700	19000
26	KZK26x34x16	9284/26	25	26	34	16	11700	17500
28	KZK28x33x14		15.7	28	33	14	13200	21900
	KZK28x34x14		20	28	34	14	16500	20700
	KZK28x35x15		25	28	35	15	18000	22000
	KZK28x35x16	19243/28	27	28	35	16	18900	23000
	KZK28x36x16		29.1	28	36	16	19500	27000
	KZK28x38x13.6		40	28	38	13.6	17300	20300
30	KZK30x36x16		28.5	30	36	16	18900	22800
	KZK30x37x16	19243/30	29	30	37	16	21500	30500
	KZK30x38x16		34.4	30	38	16	22700	32600
	KZK30x38x18		38.8	30	38	18	26200	39600
32	KZK32x40x22	19244/32K	50	32	40	22	27800	39300
	KZK32x42x20		54	32	42	20	29000	41000
35	KZK35x42x20	29243/35	10	35	42	20	26000	40200
38	KZK38x46x20	19244/38	50	38	46	20	31100	43000
40	KZK40x48x17		50	40	48	17	29000	39000
	KZK40x48x20	19244/40	54	40	48	20	32500	51000
Tolerance of width:-0.20/-0.55mm. Special tolerance requirment shall be indicated on order								



Shaft Diameter	Bearing Designation		Mass Approx	Boundary Dimensions			Basic Load Rating	
	Current	Original Code		Fw	Ew	Bc	Cr Dynamic	Cor Static
					mm		N	
mm			g					
8	KBK8x11x10	39241/8	1.85	8	11	10	3500	4000
	KBK8x12x10	29242/8	2	8	12	10	3700	4100
9	KBK9x12x11.5		2.4	9	12	11.5	4200	4800
	KBK9x12x13	49241/9	2.75	9	12	13	4600	5800
	KBK9x12x14		3.5	9	12	14	4700	5900
	KBK9x13x12	39242/9	4.1	9	13	12	5300	5700
	KBK9x13x12.5		4.9	9	13	12.5	5300	5700
	KBK9x13x13	39242/9	5.1	9	13	13	5350	5600
10	KBK10x13x8	29241/10	2	10	13	8	4000	5000
	KBK10x13x10	39241/10	2.4	10	13	10	4200	5200
	KBK10x13x14.5	59241/10	5.1	10	13	14.5	5400	6600
	KBK10x13x16		5.7	10	13	16	6800	7700
	KBK10x14x10	29242/10	3.4	10	14	10	4400	4600
	KBK10x14x11		4	10	14	11	5200	5700
	KBK10x14x12		4.5	10	14	12	5400	6000
	KBK10x14x12.5		4.85	10	14	12.5	5600	6200
KBK10x14x13	39242/10	5.4	10	14	13	5600	6200	
11	KBK11x15x17		5	11	15	17	5200	7000
12	KBK12x15x13	49241/12	4.6	12	15	13	5500	7300
	KBK12x15x14.3		5.4	12	15	14.3	5800	7700
	KBK12x15x15	59241/12	5.6	12	15	15	5900	7800
	KBK12x15x16.5		6.2	12	15	16.6	6800	9900
	KBK12x15x17	69241/12	6.3	12	15	17	7000	10000
	KBK12x15x17.5		6.5	12	15	17.5	7000	10000
	KBK12x16x13	39242/12	6.7	12	16	13	6300	7600
	KBK12x16x15	149242/12KY	7.9	12	16	15	7500	9000
	KBK12x16x15.5		8.3	12	16	15.5	7600	10000
	KBK12x16x16	59241/12	8.5	12	16	16	7800	9300
	KBK12x16x17	59242/12	9.2	12	16	17	7900	9400
	KBK12x17x14		8	12	17	14	8000	9500
	KBK12x17x14.3		8.4	12	17	14.3	8000	9500
	KBK12x17x14.8		8.8	12	17	14.8	8300	9800
13	KBK13x17x14.5		7.1	13	17	14.5	8300	10200
	KBK13x17x17.5		8.6	13	17	17.5	9500	12100



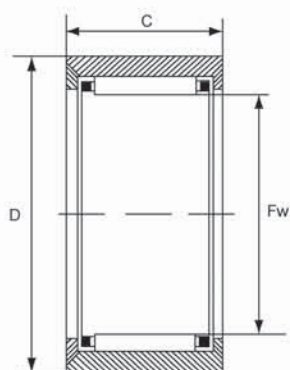
Needle Roller and Cage Assemblies For Crank Piston Pin Bearings

Shaft Diameter	Bearing Designation		Mass Approx	Boundary Dimensions			Basic Load Rating	
	Current	Original Code		Fw	Ew	Bc	Cr Dynamic	Cor Static
14	KBK14x18x10	29241/14	4.6	14	18	10	6260	7400
	KBK14x18x12		6.6	14	18	12	6380	7570
	KBK14x18x13	39241/14	7.6	14	18	13	7300	8700
	KBK14x18x14		6.33	14	18	14	7400	8800
	KBK14x18x14.5		8	14	18	14.5	7400	8800
	KBK14x18x15	49241/14	8.3	14	18	15	7600	8990
	KBK14x18x16.5		9.6	14	18	16.5	8800	9700
	KBK14x18x17	59241/14	10.1	14	18	17	8900	9800
	KBK14x18x20	69241/14	12	14	18	20	9000	10100
	KBK14x18x21		13	14	18	21	10500	12400
	KBK14x18x22		14	14	18	22	11100	13100
	KBK14x19x17	49241/14K	10.3	14	19	17	11100	13100
15	KBK15x19x10	29241/15Y	5	15	19	10	6500	8600
	KBK15x19x18		11	15	19	18	9900	11300
	KBK15x19x19		12	15	19	19	10100	12800
	KBK15x19x20	69241/15	12.9	15	19	20	11300	15500
	KBK15x20x24	SZ-433	18.6	15	20	24	14100	20000
16	KBK16x20x19		12	16	20	19	11700	16800
	KBK16x20x20	69241/16Y	13.4	16	20	20	12900	17600
	KBK16x20x21		14	16	20	21	12900	17600
	KBK16x20x22		15	16	20	22	13000	18700
	KBK16x21x19	59242/16	16	16	21	19	13000	18700
17.5	KBK17.5x22x16		9.3	17.5	22	16	11000	16300
18	KBK18x22x22		16.9	18	22	22	11500	17700
	KBK18x22x23.5		18	18	22	23.5	11900	19000
	KBK18x22x24		18.4	18	22	24	12000	20000
	KBK18x22x25		19.1	18	22	25	12700	20100
	KBK18x23x21		18	18	23	21	9900	10100
	KBK18x23x23	69241/18	20	18	23	23	10500	12000
	KBK18x24x20	49243/18	20	18	24	20	20000	25000
20	KBK20x24x30		22.1	20	24	30	14900	25500
	KBK20x25x22		19.5	20	25	22	15200	22300
	KBK20x25x25		23	20	25	25	17100	24000
Tolerance of width:-0.20/-0.55mm. Special tolerance requirment shall be indicated on order								

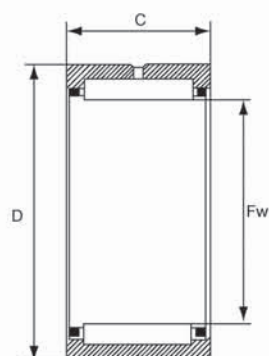
Heavy Duty Needle Roller Bearings

Products Scope	SFT supply the following bearings
Series	Structure explanation
NK,NKS	Without inner ring, light series, heavy series
RNA49	Without inner ring, 49 dimension series
RNA69	Without inner ring double row needle roller bearing, 69 dimension series
RNA48	Without inner ring, 48 dimension series
NKI,NKIS	With inner ring, light series, heavy series
NA49	With inner ring, 49 dimension series
NA69	With inner ring double row needle roller bearing, 69 dimension series
NA48	With inner ring, 48 dimension series
RNA49...RS	Without inner ring, one side sealed, 49 dimension series
NA49...RS	Without inner ring, both side sealed, 49 dimension series
NA49...RS	With inner ring, one side sealed, 49 dimension series
NA9...2RS	With inner ring, both side sealed, 49 dimension series
NAO	Without slinger
RNAO	Without inner ring, without slinger for outer ring
RNAV	Without inner ring, full complement, 40 dimension series
NAV	With inner ring, full complement, 40 dimension series

Needle roller bearings are very low section bearings with relatively high load carrying capacity. They are available with many designs & dimension series. All needles are in G2 precision grade. Excepting the full complement series, needle roller bearings mainly use highly tough cages, which can precisely guide the needles.



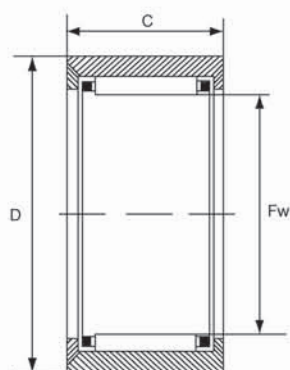
NK($F_w \leq 10\text{mm}$)
 NKS($F_w \leq 12\text{mm}$)



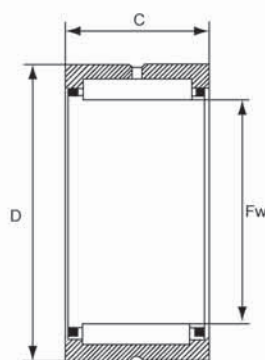
NK($F_w \geq 10\text{mm}$) NKS($F_w \geq 14\text{mm}$)
 RNA49, RNA69($F_w \leq 35\text{mm}$)

Heavy Duty Needle Roller Bearing Without Inner Ring

Shaft Diameter	Bearing Designation		Mass Approx	Boundary Dimensions			Basic Load Rating		Limiting Speed
	Current	Original Code		Fw	D	C	Cr Dynamic	Cor Static	Oil
5	NK5/10 TN		2.9	5	10	10	2100	1400	36780
8	NK8/12 TN		8.3	8	15	12	3050	3650	29112
10	NK10/12 TN	4624097K	10	10	17	12	4750	5350	23500
		5624097	16.6	10	17	15	4860	7100	23500
12	NK12/12	644097	11.8	12	19	12	6050	6400	21640
		5624098	15.4	12	19	15	6400	7100	21640
	NK12/16		16.8	12	19	16	8200	9800	21640
14	NK14/16	4624900K	20.8	14	22	16	8260	9600	18322
	NKS14		27	14	25	16	10400	10800	17652
	RNA4900	4624900	24.4	14	22	13	8060	9000	18322
	RNA6900	6634900	29.1	14	22	22	8281	11612	18322
15	NK15/12	644800K	18.5	15	23	12	8600	10070	21004
	RNA152815		31.7	15	28	15	13600	17200	100231
		7948/15	16.1	15	22	12	8200	9800	8412
		644302	18.2	15	25	12	10600	13500	17144
16	NK16/16		20.8	16	24	16	9030	11900	15522
	NK16/20	624701	23.9	16	24	20	10400	16800	15522
	RNA4901	4624901	16.6	16	24	13	6400	8900	15522
	RNA6901	6634901	28.7	16	24	22	14000	18600	15522
	NKS16		30	16	28	16	14900	15000	20000
17	NK17/16	644903K	21.5	17	25	16	9000	13500	14163
18	NK18/20		30.5	18	26	20	10500	13800	13628
20	NK20/16	644802	25.7	20	28	16	11500	13400	12716
	NK20/20	624802	29.3	20	28	20	12400	21800	12716
	NK202616		20.8	20	26	16	9600	10800	9125
	NK202620		17.2	20	26	20	10500	11900	9125
	NKS20		46.8	20	32	20	20000	22000	18000
	NK203312SX		29.1	20	33	12	13000	17500	11124
		6624101	24.3	20	28	25	11000	12900	12716
	RNA4902	4624902	20.5	20	28	13	10800	12800	12716
RNA6902	6634902	35.4	20	28	23	13000	25000	12716	
22	NK22/16	NK223016	29.2	22	30	16	13500	18000	11527
		NK223516	34.6	22	35	16	18600	20800	12711
	NKS22		60.2	22	35	20	21500	25000	

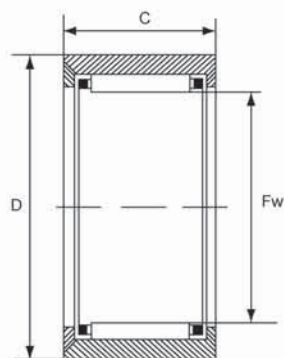


NK($F_w \leq 10\text{mm}$)
NKS($F_w \leq 12\text{mm}$)

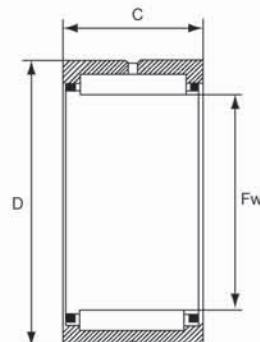


NK($F_w \geq 10\text{mm}$) NKS($F_w \geq 14\text{mm}$)
RNA49, RNA69($F_w \leq 35\text{mm}$)

Shaft Diameter	Bearing Designation		Mass Approx	Boundary Dimensions			Basic Load Rating		Limiting Speed
	Current	Original Code		Fw	D	C	Cr Dynamic	Cor Static	
mm			g		mm		N		rpm
22	RNA4903	4644903	20.7	22	30	13	12000	16800	16300
	RNA6903	6634903	39.8	22	30	23	14000	19900	16300
		624703	53	22	35	25	24500	28000	14187
		634704L	42.5	22	30	30	17700	27100	16300
		644704	27.4	22	28	16	10500	15050	15172
	NK223516		49.4	22	35	16	18600	20800	16522
23		634704KA	37.5	23	30	30	18960	29000	15711
25	NK25/16	624904	30	25	33	16	12900	20400	15000
	NK25/20	644804	38.4	25	33	20	16800	28500	15000
	RNA4904	4644904	50.8	25	37	17	11912	16594	14060
	RNA6904	6634904	97.7	25	37	30	26000	43000	14060
	NKS25		65	25	38	20	25800	31000	16300
		624704	100.1	25	35	25	14900	22400	14060
		644804K	63	25	33	30	18800	30500	14060
26	NK26/16		30	26	34	16	15000	23000	16300
	NK25/20		40	26	34	20	17000	30000	16300
28	RNA283833		99.8	28	38	33	33000	57000	12000
		F3833	99.8	28	38	33	33000	57000	12000
	NKS28		80	28	42	20	25900	33500	14600
30	NK30/20	644805	57.9	30	40	20	20600	32000	12066
	NK30/30		95	30	40	30	31500	50000	14500
	RNA4905	4624905	57	30	42	17	13452	20475	12066
	RNA6905	6634905	106.5	30	42	30	26300	31750	12066
		624905K	68	30	42	20	15400	24500	12066
32	NK32/20	624705	75.4	32	42	20	17500	33500	12066
	RNA49/28	46449/32K	80	32	45	17	17400	30050	12000
	NKS32		100	32	47	22	31000	40000	12100
	RNA69/28		125	32	45	30	39500	61300	13100
		644906	42	32	38	11	10750	30500	12000
		644706	193	32	50	35	40500	63000	12000
35	NK35/20	644806	70	35	45	20	13851	26900	12000
	RNA4906	4624906	62.8	35	47	17	17000	30500	12000
	RNA6906	6634906	116	35	47	30	35000	67000	12000
		644907	161	35	51	32	43500	71000	11680



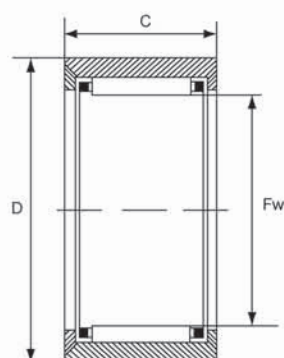
NK($F_w \leq 10\text{mm}$)
 NKS($F_w \leq 12\text{mm}$)



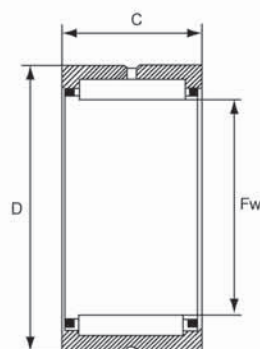
NK($F_w \geq 10\text{mm}$) NKS($F_w \geq 14\text{mm}$)
 RNA49, RNA69($F_w \leq 35\text{mm}$)

Heavy Duty Needle Roller Bearing Without Inner Ring

Shaft Diameter	Bearing Designation		Mass Approx	Boundary Dimensions			Basic Load Rating		Limiting Speed	
	Current	Original Code		Fw	D	C	Cr	Dynamic		Cor Static
mm			g		mm		N		rpm	
37		624706	154	37	52	22	28500	45500	9027	
40	NK40/20		78.9	40	50	20	19600	43000	8881	
	NK40/30		120	40	50	30	22200	513500	8881	
	RNA69/32	66349/32	147	40	52	36	25500	68500	8881	
42	NK42/20		83	42	52	20	23900	45000	10000	
	NK42/30		125	42	52	30	27000	49000	10000	
	RNA4907	4624907	99.3	42	55	20	19800	41500	8710	
	RNA6907	6634907	160	42	55	36	26000	60500	8710	
		644708	148	42	65	22	31500	5100	8710	
43	NK43/20		84	43	53	20	25700	75000	10000	
	NK43/30		126	43	53	30	39000	75000	10000	
45	NK45/20	644808	81.5	45	55	20	19800	46500	7650	
		624708	75.3	45	55	22	20500	49600	7650	
		46449/38	80	45	58	20	21600	50500	7650	
48	RNA4908	4644908	132	48	62	22	31036	63873	8120	
	RNA6908	6634908	238	48	62	40	64000	112000	8120	
50	NK50/25		167	50	62	25	28000	67000	8140	
	NK50/35		236	50	62	35	32000	70100	8140	
		624708K	328	50	65	35	40000	62000	8140	
52	RNA4909	4624909	163	52	68	22	37000	69500	7625	
	RNA6909	6634909	308	52	68	40	61500	123500	7625	
55	NK55/25		167	55	68	25	30600	60800	7625	
		624709	210	55	68	25	36000	68000	7625	
58	RNA4910	4644910	161	58	72	22	41000	72000	7500	
	RNA4910	6634910	296	58	72	40	68000	1350000	7500	
60	NK60/25		154	60	72	25	39000	86000	7000	
63	RNA4911	4644911	241	63	80	25	50600	96580	6340	
	RNA6911	6634911	430	63	80	45	82560	172000	6340	
68	RNA4912	4644912	257	68	85	25	52800	91050	6100	
	RNA6912	6634912	436	68	85	45	88500	186000	6100	
72	RNA4913	4644913	300	72	90	25	57500	110500	6100	
	RNA6913	6634913	571	72	90	45	87600	194500	6100	
80	RNA4914	4644914	400	80	100	30	79000	154000	5130	
	RNA6914	6634914	815	80	100	54	121000	263000	5130	

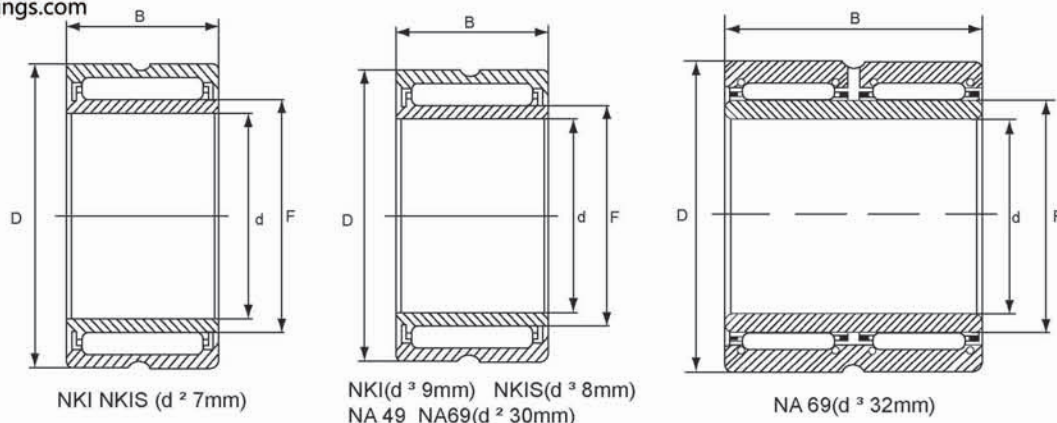


NK(Fw≤10mm)
NKS(Fw≤12mm)



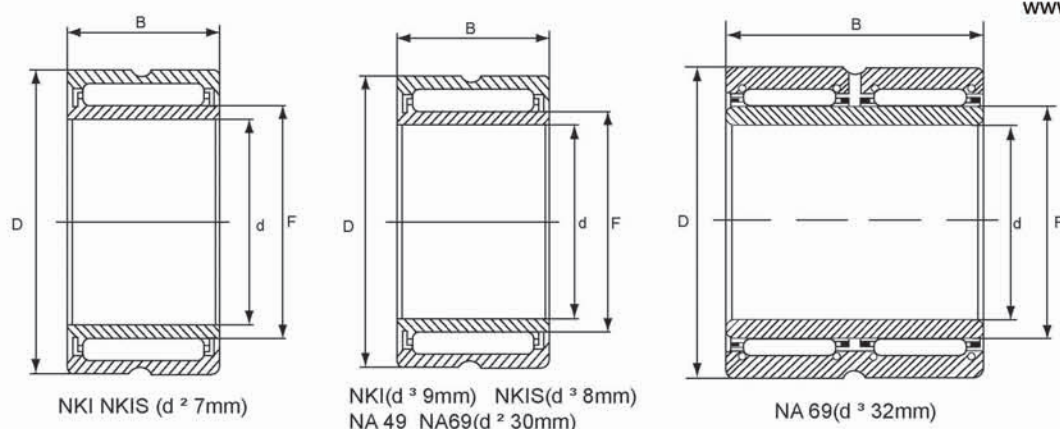
NK(Fw≥10mm) NKS(Fw≥14mm)
RNA49, RNA69(Fw≤35mm)

Shaft Diameter	Bearing Designation		Mass Approx	Boundary Dimensions			Basic Load Rating		Limiting Speed
	Current	Original Code		Fw	D	C	Cr Dynamic	Cor Static	Oil
mm			g		mm		N		rpm
85	RNA4915	4644915	472	85	105	30	82000	158000	5130
	RNA6915	6634915	923	85	105	54	128000	272000	5130
90	RNA4916	4644916	496	90	110	30	81000	170500	4927
	RNA6916	6634916	978	90	110	54	130500	280600	4927
96		SG-421	496	96	115	29	73000	137000	4600
100	RNA4917	4644917	608	100	120	35	98000	207000	4600
	RNA6917	6634917	1112	100	120	63	161000	337000	4600
105	RNA4918	4644918	713	105	125	35	98500	239000	4000
	RNA6918	6634918	1250	105	125	63	174000	38000	4000
110	RNA4919	4644919	685	110	130	35	112000	245000	3870
	RNA6919	6634919	1325	110	130	63	196000	400000	3870
115	RNA4920	4624920	1006	115	140	40	120000	264000	3710
125	RNA4922	6634922	1200	125	150	40	124000	270000	3350
135	RNA4924	4644924	1760	135	165	45	174000	386000	2920
160	RNA4928	4644928	2350	160	190	50	200000	460000	2900

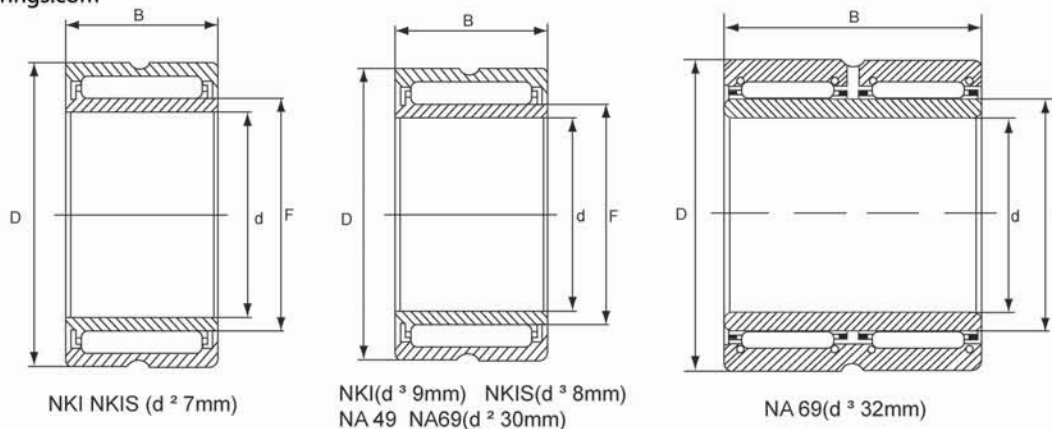


Heavy Duty Needle Roller Bearing With Inner Ring

Shaft Diameter	Bearing Designation		Mass Approx	Boundary Dimensions				Basic Load Rating		Limiting Speed
	Current	Original Code		d	Fw	D	B	Cr Dynamic	Cor Static	Oil
				mm	g	mm	N	rpm		
8	NK18		46	8	14	25	16	12400	11300	21500
9	NK19/12		14.6	9	12	19	12	6200	7002	21700
10	NK10/16		27.3	10	14	22	16	9808	10500	19650
	NA4900	4524900	21	10	14	22	13	8006	9000	23700
	NA6900	6534900	38.4	10	14	22	22	8281	11612	23700
12	NA4901	4524901	25.1	12	16	24	13	5047	6352	20000
	NKI12/20		39	12	16	24	20	14000	18400	21000
	NA6901	6534901	44.5	12	16	24	22	11647	17052	20000
	NKIS12		58	12	18	30	16	16000	17000	20000
15	NKI15/16		38	15	19	27	16	8847	12853	19100
	NKI15/20		45.7	15	19	27	20	12347	19053	19100
	NA4902	4524902	32	15	20	28	13	6447	9053	18800
	NA6902	6534902	61.6	15	20	28	23	13100	20900	18800
	NKIS15		90	15	22	35	20	23500	24000	17000
17	NK17/16		41.4	17	21	29	16	13000	18200	20000
	NA4903	4544903	32.8	17	22	30	13	7010	10010	17000
	NA6903	6534903	68.2	17	22	30	23	14400	24900	17000
20	NKI20/16		48.5	20	24	32	16	10800	17000	16700
	NA4904	4524904	70.2	20	25	37	17	11912	16594	16200
	NKIS20		119	20	28	42	20	16500	35500	14000
22	NKI22/16		50	22	25	34	16	8721	15340	16200
	NA49/22		76	22	28	39	17	12996	19175	14360
	NA69/22		130	22	28	39	30	21375	35750	14360
25	NKI25/30		115	25	29	38	30	31500	56000	14000
	NA4905	4524905	76	25	30	42	17	13452	20475	13832
	NA6905	6534905	138	25	30	42	30	19300	31750	13832
	NKIS25		160	25	32	47	22	32000	55000	12500
		F-208277		25	32	47	22			
28	NKI25/20			25	29	38	20			
	NA49/28	45449/28	90.7	28	32	45	17	13900	20100	13832
	NA69/28		170	28	32	45	30	22400	36850	13832
	NKI28/20			28	32	42	20			
30	NKI30/20			30	35	45	20			
	NKI30/30			30	35	45	30			



Shaft Diameter	Bearing Designation		Mass Approx	Boundary Dimensions				Basic Load Rating		Limiting Speed
	Current	Original Code		d	Fw	D	B	Cr Dynamic	Cor Static	Oil
				mm	g	mm		N		rpm
32	NKI32/20			32	37	47	20			
		TAFI324720		32	37	47	20			
	NA49/32	45449/32	150	32	40	52	20	19000	32600	11134
	NA69/32	66349/32	272	32	40	52	36	25500	68500	11134
35	NKI35/30		165	35	40	50	30	22200	51350	11134
	NA4907	4524907	151	35	42	55	20	19800	41500	11134
	NA6907	6534907	301	35	42	55	36	26000	60500	11134
	NKIS35		210	35	43	58	22	33000	56000	9500
40	NKI40/20		124	40	45	55	20	22000	48000	10127
	NKI40/30		184	40	45	55	30	35000	86000	10127
	NA4908	4544908	123	40	48	62	22	31036	63873	8567
	NA6908	6534908	401	40	48	62	40	64000	112000	8567
42	NKI42/20		138	42	47	57	20	26000	52500	9500
45	NKI45/25		218	45	50	62	25	36000	70000	8567
	NKI45/35		289	45	50	62	35	41500	102000	8567
	NA4909	4544909	260	45	50	68	22	37000	96500	8052
	NA6909	6534909	479	45	50	68	40	61500	123500	80523
	NKIS45		306	45	55	72	22	43000	71000	7500
50	NKI50/25	TAFI506825	262	50	55	68	25	32000	78000	7890
	NA4910	4544910	264	50	58	72	22	41000	72000	7526
	NA6910	6534910	457	50	58	72	40	68000	135000	7526
	NKIS50		510	50	60	80	28	60000	95000	7200
	NKI50/35	TAFI506835		50	55	68	35			
55	NKI55/35		357	55	60	72	35	48000	126800	7256
	NA4911	4544911	386	55	63	80	25	50600	96580	7156
	NA6911	6534911	760	55	63	80	45	82560	172000	7156
60	NKI60/25		388	60	68	82	25	35500	85000	7156
	NA4912	4544912	412	60	68	85	25	52800	110500	6022
	NA6912	6534912	798	60	68	85	45	88500	186000	6022
	NKIS60		550	60	70	90	28	65000	110000	6300
65	NA4913	4544913	435	65	72	90	25	57500	110500	6022
	NA6913	6534913	821	65	72	90	45	87600	194500	6022
	NKI65/25			65	73	90	25			
70	NA4914	4544914	712	70	80	100	30	79000	15400	5111

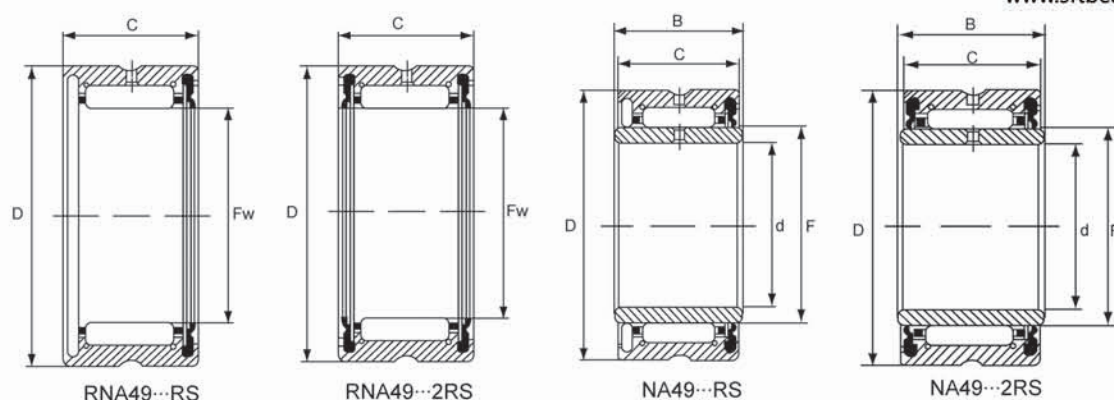


Heavy Duty Needle Roller Bearing With Inner Ring

Shaft Diameter	Bearing Designation		Mass Approx	Boundary Dimensions				Basic Load Rating		Limiting Speed
	Current	Original Code		d	Fw	D	B	Cr Dynamic	Cor Static	Oil
				mm	g	mm		N		rpm
70	NA6914	6534914	1326	70	80	100	54	121000	263000	5111
	NKI70/35			70	80	95	35			
75	NA4915	4544915	765	75	85	105	30	82000	158000	5111
	NA6915	6534915	1429	75	85	105	54	128000	272000	5111
80	NA4916	4544916	870	80	90	110	30	81000	170500	5111
	NA6916	6534916	1510	80	90	110	54	130500	280600	5000
	NKI80/35			80	90	110	35			
85	NA4917	4544917	1250	85	100	120	35	111000	237000	4600
	NA6917	6534917	2200	85	100	120	63	166000	400000	4600
90	NA4918	4544918	1312	90	105	125	35	114000	250000	4400
	NA6918	6534918	2310	90	105	125	63	172000	425000	4400
95	NA4619	4544919	1371	95	110	130	35	116000	260000	4200
	NA6919	6534919	2500	95	110	130	63	174000	440000	4200
	NKI95/36			95	105	125	36			
100	NA4920	4544920	1900	100	115	140	40	120000	274000	4000
	NKI100/30			100	110	130	30			
110	NA4922	4544922	2070	110	125	150	40	132000	290000	3700
	NA4822		1080	110	120	140	30	94000	216000	3900
120	NA4924	4544924	2860	120	135	165	45	181000	890000	3400
	NA4824		1170	120	130	150	30	99000	239000	2600
130	NA4926	4544926	3900	130	150	180	50	223000	470000	3100
	NA4826		1810	130	145	165	35	118000	310000	3200
140	NA4928	4544928	4150	140	160	190	50	209000	500000	2900
	NA4828		1920	140	155	175	35	120000	325000	3000

TN=plastic cage(working temperature:120℃ continually;180℃ shorty)

Limiting speed for grease:60% of the one for oil



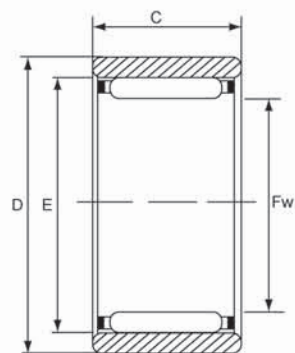
Sealed Heavy Duty Needle Roller Bearing With Inner Or Without Inner Ring

Shaft Diameter	Bearing Designation		Mass Approx	d	Boundary Dimensions				Basic Load Rating		Limiting Speed	
	Sealed on one side	Sealed on both sides			Fw	D	C	B	Cr Dynamic	Cor Static		Oil
	mm	Current			Original Code	g	mm			N		rpm
without inner ring												
14	RNA4900 RS	RNA4900.2 RS	16		14	22	13		4560	4660	13000	
16	RNA4901 RS	RNA4904.2 RS	18		16	24	13		4950	5800	12000	
20	RNA4902 RS	RNA4902.2 RS	21.5		20	28	13		5980	9500	10000	
22	RNA4903 RS	RNA4903.2 RS	23		22	30	13		6050	10100	9000	
25	RNA4904 RS	RNA4904.2 RS	56		25	37	17		14900	17500	7500	
30	RNA4905 RS	RNA4905.2 RS	60		30	42	17		16300	21500	6500	
35	RNA4906 RS	RNA4906.2 RS	69		35	47	17		20050	24900	5500	
42	RNA4907 RS	RNA4907.2 RS	107		42	55	20		22500	37000	4800	
48	RNA4908 RS	RNA4908.2 RS	154		48	62	22		33050	50900	4200	
52	RNA4909 RS	RNA4909.2 RS	157		52	68	22		34800	56800	3900	
58	RNA4910 RS	RNA4910.2 RS	160		58	72	22		37800	61500	3500	

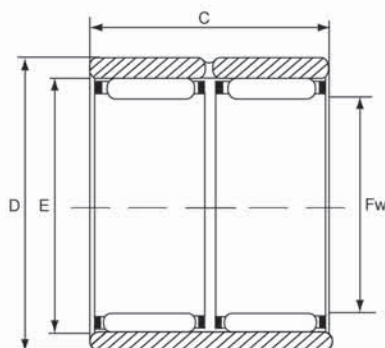
with inner ring

10	NA4900 RS	NA4900.2 RS	24.5	10	14	22	13	14	4560	4660	13000
12	NA4901 RS	NA4901.2 RS	27.5	12	16	24	13	14	4950	4660	12000
15	NA4902 RS	NA4902.2 RS	37	15	20	28	13	14	5950	9500	10000
17	NA4903 RS	NA4903.2 RS	40	17	22	30	13	14	6050	10100	9000
20	NA4904 RS	NA4904.2 RS	80	20	25	37	17	18	14900	17500	7500
25	NA4905 RS	NA4905.2 RS	89.5	25	30	42	17	18	16300	21500	6500
30	NA4906 RS	NA4906.2 RS	104	30	35	47	17	18	20050	24900	5500
35	NA4907 RS	NA4907.2 RS	175	35	42	55	20	21	22500	37000	4800
40	NA4908 RS	NA4908.2 RS	252	40	48	62	22	23	33050	50900	4200
45	NA4909 RS	NA4909.2 RS	290	45	52	68	22	23	34800	56800	3900
50	NA4910 RS	NA4910.2 RS	295	50	58	72	22	23	37800	61500	3500

TN=plastic cage(working temperature:120°C continually:180°C shorty)
Limiting speed for grease:60% of the one for oil



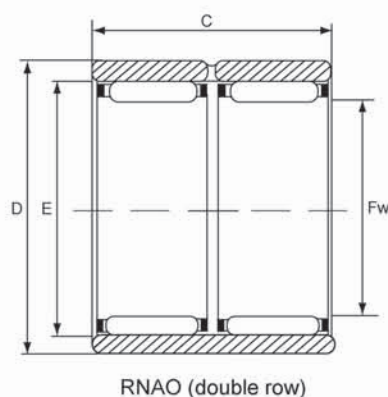
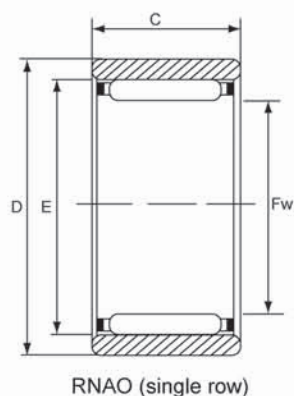
RNAO (single row)



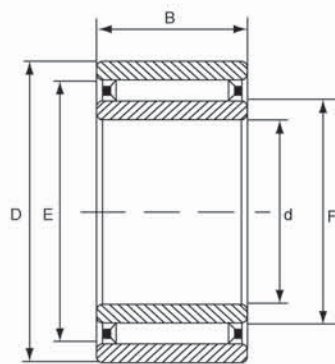
RNAO (double row)

Heavy Duty Needle Roller Bearing Without Ribs

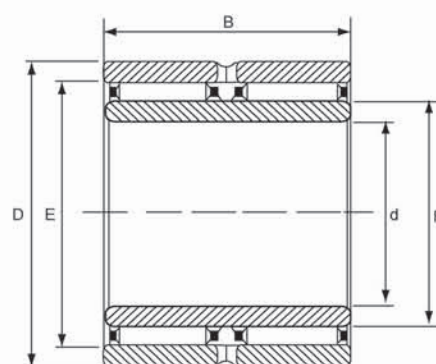
Shaft Diameter	Bearing Designation	Mass Approx	Boundary Dimensions				Basic Load Rating		Limiting Speed
			Fw	D	C	E	Cr Dynamic	Cor Static	
mm		g		mm			N		rpm
5	RNAO5x10x8	2.8	5	10	8	8	2050	1720	27800
6	RNAO6x13x8 TN	5	6	13	8	9	2300	1880	30000
7	RNAO7x14x8 TN	5	7	14	8	10	2250	1950	31000
8	RNAO8x15x10 TN	7.8	8	15	10	11	3050	3820	28000
10	RNAO10x17x10 TN	9.1	10	17	10	13	3960	4500	20000
12	RNAO12x19x13.5 TN	14	12	19	13.5	15	5400	7500	22000
	RNAO12x22x12 TN	17.9	12	22	12	18	8950	8000	23000
15	RNAO15x23x13	18.5	15	23	13	19	6500	8900	21100
16	RNAO16x24x13	19.8	16	24	13	20	6200	8400	21100
	RNAO16x24x20	29.7	16	24	20	20	10200	14800	21100
	RNAO16x28x12	29.7	16	28	12	22	9500	10500	18000
17	RNAO17x25x13	21	17	25	13	21	9400	11600	18000
18	RNAO18x30x24	65	18	30	24	24	12100	16500	17600
20	RNAO20x28x13	24.5	20	28	13	24	7800	9600	16000
	RNAO20x28x26	48.1	20	28	26	24	10080	20500	16000
	RNAO20x32x12	36.6	20	32	12	26	10100	14100	16000
22	RNAO22x35x13	25.2	22	35	13	26	9200	12000	14000
	RNAO25x35x16	58	22	35	16	29	10000	15500	16000
25	RNAO25x35x17	49	25	35	17	29	10900	22000	15020
	RNAO25x35x26	67.8	25	35	26	29	12400	25000	15020
	RNAO25x37x16	59.2	25	37	16	32	15000	20900	12000
	RNAO25x37x32	108	25	37	32	32	25000	38900	12000
26	RNAO26x39x13	59	26	39	13	30	87600	10200	15020
30	RNAO30x40x17	59	30	40	17	35	12600	24000	10050
	RNAO30x40x26	92	30	40	26	35	16000	32000	10050
	RNAO30x42x16	49.9	30	42	16	37	13000	23200	10050
	RNAO30x42x32	126	30	42	32	37	29500	47000	10050
35	RNAO35x45x13	50	35	45	13	40	10200	22000	10000
	RNAO35x45x17	60	35	45	17	40	17800	24500	10000
	RNAO35x45x26	88	35	45	26	40	20500	40000	10000
	RNAO35x47x16	75	35	47	16	42	20400	31500	10000
	RNAO35x47x18	86	38	47	18	42	22500	35000	10000
	RNAO35x47x32	149	35	47	32	42	32000	55000	10000
37	RNAO37x52x18	115	37	52	18	44	118900	35500	8800



Shaft Diameter	Bearing Designation	Mass Approx	Boundary Dimensions				Basic Load Rating		Limiting Speed
			Fw	D	C	E	Cr Dynamic	Cor Static	Oil
mm		g		mm			N		rpm
40	RNAO40x50x17	72	40	50	17	45	15400	29800	8800
	RNAO40x50x34	151	40	50	34	45	25186	57200	11000
	RNAO40x55x20	144	40	55	20	47	26300	46100	10000
	RNAO40x55x40	268	40	55	40	48	54700	87000	10000
42	RNAO42x57x20	132	42	57	20	50	26720	43700	10000
45	RNAO45x55x17	82.5	45	55	17	50	18000	36000	9000
	RNAO45x62x40	368	45	62	40	53	42200	85050	9000
50	RNAO50x62x20	140	50	62	20	55	20690	46860	7500
	RNAO50x65x20	162	50	65	20	58	23200	40540	7000
	RNAO50x65x40	321	50	65	40	58	39040	80600	7000
55	RNAO55x68x20	157	55	68	20	60	22480	52074	6500
60	RNAO60x78x20	253	60	78	20	65	28500	65300	5550
	RNAO60x78x40	368	60	78	40	68	45000	99000	5550
65	RNAO65x85x30	394	65	85	30	73	37000	90900	4900
70	RNAO70x90x30	488	70	90	30	78	40010	10500	5100
80	RNAO80x100x30	527	80	100	30	88	52000	139000	4890
85	RNAO85x105x25	449	85	105	25	93	48600	106000	4900
90	RNAO90x105x26	323	90	105	26	98	42519	129000	4900
	RNAO90x110x30	600	90	110	30	98	58100	152000	4900
100	RNAO100x120x30	671	100	120	30	108	50000	158000	3100



NAO (single row)

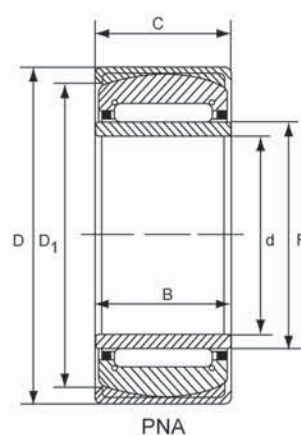
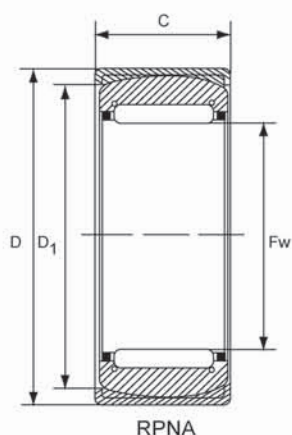


NAO (double row)

Heavy Duty Needle Roller Bearing Without Ribs

Shaft Diameter	Bearing Designation	Mass Approx	Boundary Dimensions					Basic Load Rating		Limiting Speed
			d	D	B	F	E	Cr Dynamic	Cor Static	Oil
mm		g			mm			N		rpm
6	NAO6x17x10 TN	13	6	17	10	10	13	3950	5000	17080
9	NAO9x22x12 TN	22	9	22	12	12	18	8800	7900	12090
12	NAO12x24x13	29	12	24	13	16	20	8000	16000	15020
	NAO12x24x20	43	12	24	20	16	20	10300	16800	20000
	NAO12x28x12	38.6	12	28	12	16	22	9850	10500	19000
15	NAO15x28x13	27.8	15	28	13	20	24	7800	10300	20600
	NAO15x32x12	48.1	15	32	12	20	26	10400	14020	20000
17	NAO17x30x13	39	17	30	13	22	26	9860	15000	20000
	NAO17x35x16	70	17	35	16	22	29	16800	20050	10090
20	NAO20x35x17	72	20	35	17	25	29	12600	20200	16000
	NAO20x37x16	81	20	37	16	25	32	10000	18000	12700
25	NAO25x40x17	78.9	25	40	17	30	35	10600	24000	10500
	NAO25x42x16	83	25	42	16	30	37	13100	23500	10500
	NAO25x42x32	189	25	42	32	30	37	26500	47000	10500
30	NAO30x45x13	73	30	45	13	35	40	11200	25000	11207
	NAO30x45x17	100	30	45	17	35	40	12800	28500	11207
	NAO30x45x26	150	30	45	26	35	40	17500	32900	11207
	NAO30x47x16	99.8	30	47	16	35	42	14400	17500	11207
	NAO30x47x18	109	30	47	18	35	42	20000	33000	11207
	NAO30x52x18	172	30	52	18	37	44	18000	25500	10900
35	NAO35x50x17	103	35	50	17	40	45	20800	40506	10900
	NAO35x55x20	175	35	55	20	40	47	28500	41000	10000
	NAO35x57x20.5	206	35	57	20.5	42	50	26000	49000	10000
40	NAO40x55x17	118	40	55	17	45	50	12500	36000	9000
	NAO40x65x20	269	40	65	20	50	58	35000	61200	8000
50	NAO50x68x20	219	50	68	20	55	60	24500	62000	7500
	NAO50x78x20	400	50	78	20	60	68	33500	65000	6500
70	NAO70x100x30	829	70	100	30	80	88	52600	129000	4000
75	NAO75x105x25	676	75	105	25	85	93	42000	106000	3900
80	NAO80x110x30	892	80	110	30	90	98	49020	112000	4200
90	NAO90x120x30	1004	90	120	30	100	108	51000	128000	3900

TN=plastic cage(working temperature:120°C continually:180°C shorty)
 Limiting speed for grease:60% of the one for oil



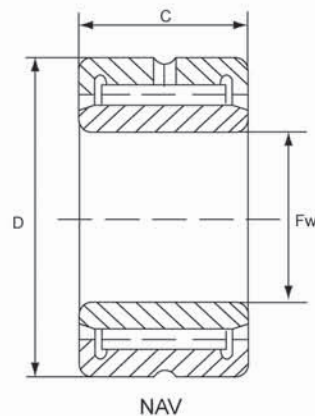
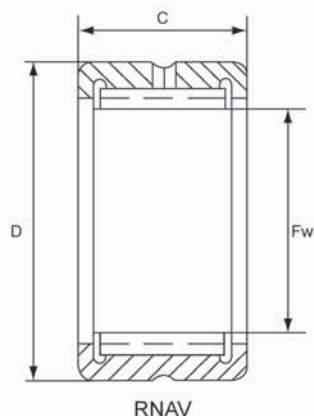
Aligning Heavy Duty Needle Roller Bearing With Inner Or Without Inner Ring

Shaft Diameter	Bearing Designation	Mass Approx	Boundary Dimensions					Basic Load Rating		Limiting Speed	
			d	Fw	D	B	D	S	Cr Dynamic	Cor Static	Oil
mm		g			mm				N		rpm
without inner ring											
15	RPNA15/28	32		15	28	12	24.5		4660	5700	24000
18	RPNA18/32	52		18	32	16	27		9800	14000	24000
20	RPNA20/35	62		20	35	16	30.5		10500	15500	21000
25	RPNA25/42	109		25	42	20	36.5		14900	27800	18000
28	RPNA28/44	112		28	44	20	38.5		20500	31900	16000
30	RPNA30/47	125		30	47	20	42		20980	33500	15000
35	RPNA35/52	131		35	52	20	47.5		21500	39600	13000
40	RPNA40/55	141		40	55	20	50.5		24000	44700	11000
45	RPNA45/62	176		45	62	20	58		24800	50900	10000

with inner ring

12	PNA12/28	37	12	15	28	12	24.5	0.5	4660	5700	24000
15	PNA15/32	62	15	18	32	16	27	0.5	9800	14000	22000
17	PNA17/35	73	17	20	35	16	30.5	0.5	10500	15500	21000
20	PNA20/42	136	20	25	42	20	36.5	0.5	14900	27800	18000
22	PNA22/44	145	22	28	44	20	38.5	0.5	20500	31900	16000
25	PNA25/47	157	25	30	47	20	42	0.5	20980	33500	15000
30	PNA30/52	181	30	35	52	20	47.5	0.5	21500	39600	13000
35	PNA35/55	177	35	40	55	20	50.5	0.5	24000	44700	11000
40	PNA40/62	227	40	45	62	20	58	0.5	24800	50900	10000

"S": the permit displacement in axial direction of ring relative to outer ring
Limiting speed for grease:60% of the one for oil



Heavy Duty Complement Needle Roller Bearings

Shaft Diameter	Bearing Designation		Mass Approx	Boundary Dimensions			Basic Load Rating		Limiting Speed
	Current	Original Code		Fw	D	C	Cr Dynamic	Cor Static	Oil
mm			g		mm		N		rpm
21.87	RNAV4002	4084102	45	21.87	32	17	10800	29800	4500
24.3	RNAV4003	4084103	62	24.3	35	18	17900	37900	4300
28.7	RNAV4004	4084104	114	28.7	42	22	28150	60900	3900
33.5	RNAV4005	4084105	129	33.5	47	22	33800	70800	3700
40.1	RNAV4006	4084106	193	40.1	55	25	49900	96500	3500
45.9	RNAV4007	4084107	259	45.9	62	27	47600	122800	3100
51.6	RNAV4008	4084108	304	51.6	68	28	49900	137900	2700
57.4	RNAV4009	4084109	390	57.4	75	30	52500	153500	2600
62.1	RNAV4010	4084110	426	62.1	80	30	55700	166000	2500
69.8	RNAV4011	4084111	645	69.8	90	35	68500	225800	2300
74.6	RNAV4012	4084112	677	74.6	95	35	75400	239000	2100
80.3	RNAV4013	4084113	692	80.3	100	35	79500	256900	1900
88	RNAV4014	4084114	950	88	110	40	98800	354900	1700
92.7	RNAV4015	4084115	1000	92.7	115	45	101800	372900	1600
100.3	RNAV4016	4084116	1400	100.3	125	45	102900	373500	1500
104.8	RNAV4017	4084117	1540	104.8	130	45	103800	374800	1400
15	NAV4002	4074102	76	15	32	17	10800	29800	4500
17	NAV4003	4074103	94	17	35	18	1700	37900	4300
20	NAV4004	4074104	170	20	42	22	28150	60900	3900
25	NAV4005	4074105	195	25	47	22	33800	70800	3700
30	NAV4006	4074106	299	30	55	25	49900	96500	3500
35	NAV4007	4074107	402	35	62	27	47600	122800	3100
40	NAV4008	4074108	482	40	68	28	49900	137900	2700
45	NAV4009	4074109	617	45	75	30	52500	153500	2600
50	NAV4010	4074110	669	50	80	30	55700	166000	2500
55	NAV4011	4074111	1030	55	90	35	68500	225800	2300
60	NAV4012	4074112	1087	60	95	35	75400	239000	2100
65	NAV4013	4074113	1156	65	100	35	79500	256900	1900
70	NAV4014	4074114	1666	70	110	40	98800	354900	1700
75	NAV4015	4074115	1762	75	115	45	101800	372900	1600
80	NAV4016	4074116	2450	80	125	45	102900	373500	1500
85	NAV4017	4074117	2500	85	130	45	103800	374800	1400
17		74703	126	17	35	24.5	8700	10800	4200
15		74802	100	15	36	24.5	8900	11200	4400