

**SRG**

# Needle Bearing



## **SRG BEARINGS**

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## About us 公司简介

SRG Bearings is an internationally renowned bearing brand belonging to SRG GROUP LIMITED. It is a bearing factory that integrates bearing production, research and development, and export. We mainly provide roller and ball bearings.

SRG Bearing Factory was established in 1997 and is located in Liaocheng City, Shandong Province. It is a long-standing bearing production enterprise. We have 120 CNC machine tools, 6 bearing processing production lines, and can independently complete bearing production, assembly, precision grinding, heat treatment, and other processes. The inner bore size range is from 3mm to 6.5m, and the weight range is from 10.5g to 2.6 tons.

Our main products include:

Miniature and medium-sized deep groove ball bearings

Double row self-aligning roller bearings

Four-row heavy-duty cylindrical roller bearings

Self-aligning roller bearings

Thrust ball bearings, thrust ball and roller bearings

Single and double row tapered roller bearings

Needle roller bearings

High-precision spindle bearings

Pillow block bearings, shaft sleeves, steel balls

Technical support

Maintenance and repair

Product training

SRG bearings are widely used in railways, mines, machinery, automobiles, ships, metallurgy, petroleum, electricity, agriculture, textile, and aviation industries.

SRG products have been sold to Europe, Asia, America, and Southeast Asia, which are our most important markets. We have spent a lot of time developing new products while also producing high-quality products. We are popular both domestically and internationally.

We welcome your inquiries and look forward to future cooperation.

# Product display



⊙The outer ring of drawn cup needle roller bearing is punched with the high-quality steel sheet. The outer ring has thin wall. The drawn cup needle roller bearing has the characteristics of small radial section area, large load carrying capacity, less inertia and economic manufacture. It is suitable for small section height, or when the housing bore isn't used for raceway, this type is recommended to use. The bearing is assembled into the housing bore under a certain pressure without further axial location.

⊙The drawn cup needle roller bearing generally takes its shaft diameter as the internal raceway. However, the proper LR type inner ring can be used in accordance with application condition.

⊙The drawn cup needle roller bearing has two structures-with retainer and with full of needles. They are divided into open-end type and close-end type. The structure with retainer has the single seal ring and double seal ring. The structure with full of needles has a large load carrying capacity.

⊙SRG can provide all drawn cup needle roller bearings listed in this catalogue, including standard size and non-standard metric size, and inch-series as well as the high-precision drawn cup needle roller bearings with special requirements such oil hole in outer ring, double-row needles, nylon retainer, inner ring, seal ring, etc. (special technical requirement on order).

⊙The outer ring of drawn cup needle roller bearing is punched with the steel sheet. It has the small sectional height and the large load carrying capacity and is suitable for economic mass production.

⊙The interference fit between outer ring and bearing housing is applied to this kind of needle

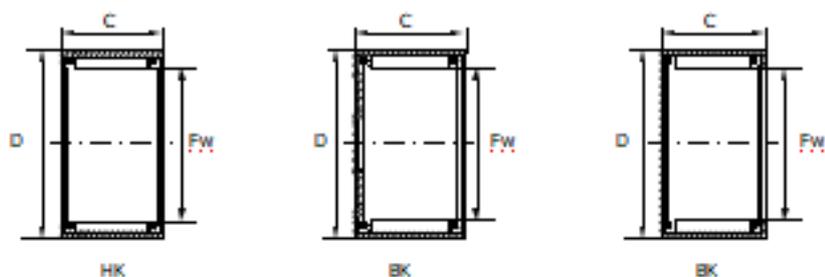
roller bearing without axial fixing device. Even for the condition of high load, it fully maintains bearing function either. In addition, with the large grease-storage capacity, it is unnecessary to add grease for a long-term operation.

⊙Since one end of the close-end bearing is sealed, it is suitable for the end of shaft with bearing the small axial sliding force.

⊙Model HK, TA, TLA, open-end drawn cup needle roller bearings with retainer,

⊙Model BK close-end drawn cup needle roller bearing with retainer,

⊙Model SCE, BA, J, JH, drawn cup needle roller bearings (Inch series).



Shaft Diameter	Bearing Designation		Mass Approx	Boundary Dimensions			Basic Load Rating		Limiting Speed
	Current Code	Original Code		Fw	D	C	Dynamic	Static	
mm			g	mm			N		rpm
3	HK0306TN			3	6.5	6	1320	950	6000
	BK0306TN			3	6.5	6	1320	950	6000
4	HK0408TN	37941/4	1.6	4	8	8	1540	1070	40000
	BK0408TN	5941/4	1.8	4	8	8	1540	1070	40000
5	HK0509TN			5	11	9	2200	1790	36000
	HK0509	47941/5	2	5	9	9	2200	1790	36000
	BK0509	45941/5	2.1	5	9	9	2200	1790	36000
	HK0510			5	9	10			
6	HK0606			6	10	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	30000
	BK0609	45941/6	2.6	6	10	9	2650	2400	30000
	HK0611		2.3	6	10	11	1700	1500	29000
7	HK06X12X8	3941/6	2.5	6	12	8	2230	2010	33000
	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
	HK0712			7	11	12			
	HK07X12X08		2.2	7	12	8	3300	3220	37000
8	HK07X12X09		2.4	7	12	9	3400	3150	37000
	HK0808	37941/8	2.7	8	12	8	2550	2400	21000
	HK0808TN			8	12	8			
	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
	HK0812	67941/8		8	12	12			
	HK08X14X10	27942/8	5.35	8	14	10	3800	3950	25000
8	BK08X14X10	25942/8	5.8	8	14	10	3800	3950	25000
	HK08X14X12	37942/8	6.6	8	14	12	4100	4320	25000

Shaft Diameter mm	Bearing Designation		Mass Approx g	Boundary Dimensions			Basic Load Rating		Limiting Speed Oil rpm
	Current Code	Original Code		Fw	D	C	Dynamic	Static	
			mm			N			
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
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	10	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	18	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	6200	7100	16000
	HK13.5X20X12	7941/13.5	10.8	13.5	20	12	6250	7590	16000

Shaft Diameter	Bearing Designation		Mass Approx	Boundary Dimensions			Basic Load Rating		Limiting Speed
	Current Code	Original Code		Fw	D	C	Dynamic	Static	Oil
mm			g	mm			N		rpm
14	HK1410	27941/14	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
	HK1416	57941/14	13.9	14	20	16	7300	9000	14000
	HK1418			14	20	18	7300	9000	14000
15	HK15X20X12	7941/15	8.4	15	20	12	5800	6000	14000
	HK15X20X16	7942/15	11.4	15	20	16	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	
	HMK1515			15	22	15			
	HK1516	57941/15	15	15	21	16	9800	11400	14000
	BK1516	55941/15	16.5	15	21	16	9800	11400	14000
	HK1518			15	21	18			
	HK1520			15	21	20			
	HMK1520			15	22	20			
	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
	HK1610	27941/16		16	22	10			
	HK1612	37941/16	11.7	16	22	12	7100	9200	14000
	BK1612	35941/16	13.8	16	22	12	7100	9200	14000
	HK1612K			16	22	12			
	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
	HK1616-ASI			16	22	16			
	HK1617	SZ-435	18	16	22	17	12900	17200	12000
	HK1620	77941/20		16	22	20			



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HK1622	87941/16	21.7	16	22	22	11100	17400	14000
BK1622	85941/16	23.4	16	22	22	11100	17400	14000

Shaft Diameter	Bearing Designation		Mass Approx	Boundary Dimensions			Basic Load Rating		Limiting Speed
	Current Code	Original Code		Fw	D	C	Dynamic	Static	Oil
mm			g	mm			N		rpm
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	13000
	HK1714	7941/17	14	17	23	14	6800	10200	10000
	HK1716	57941/17	15.9	17	23	16	8500	12500	10000
	BK1716			17	23	16	8500	12500	10000
	HK1718	7942/17	19	17	23	18	9500	10600	10000
	HK1720			17	23	20	10000	11800	10000
	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	17.5	18	24	16	10600	15300	12000
	BK1816	55941/18	19.9	18	24	16	10600	15300	12000
	HK18X24X20		18	18	24	20			
	HMK1825			18	25	25			
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		41	20	26	30	21800	40000	10100
	BK2030		43	20	26	30	21800	40000	10100
	HK20X27X18			20	27	18	26000	47200	9900
HK20X27X20			20	27	20	26300	47800	9900	

	HK20X27X30			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

Shaft Diameter	Bearing Designation		Mass Approx	Boundary Dimensions			Basic Load Rating		Limiting Speed	
	Current Code	Original Code		Fw	D	C	Dynamic	Static	Oil	
mm		Code	g	mm			N		rpm	
22	HK22X28X7.5TN		8.8	22	28	7.5	5200	7000	10100	
	HK2210	27941/22	12.3	22	28	10	7200	9500	10100	
	HK2212	37941/22	15	22	28	12	8100	10400	10100	
	BK2212	35941/22	18.1	22	28	12	8100	10400	10100	
	HK2216	57941/22	20.9	22	28	16	11400	18100	10100	
	BK2216	55941/22	24.3	22	28	16	11400	18100	10100	
	HK2220	77941/22	26.2	22	28	20	14500	25000	10100	
	BK2220	75941/22	29.9	22	28	20	14500	25000	10100	
	HMK2225				22	29	25			
	HK2230			32	22	28	30	17500	30400	9000
	HK22X29X25			37	22	29	25	18100	31500	9000
	HK22X25X30			43	22	29	30	19400	33100	9000
HK22X30X14	37942/22		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	5941/25	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	38.7	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	HK2812			28	35	12				
	HK2816	47941/28	30.1	28	35	16	15400	22500	8700	
	BK2816	45941/28	34.1	28	35	16	15400	22500	8700	
	HK2818	57941/28	31.7	28	35	18	18500	29300	8700	



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HK2820	67941/28	37.6	28	35	20	18900	32000	8700
BK2820	65941/28	43	28	35	20	18900	32000	8700
HK2825			28	35	25			
HK2830			28	35	30			
HK2833			28	35	33			

Shaft Diameter	Bearing Designation		Mass Approx	Boundary Dimensions			Basic Load Rating		Limiting Speed
	Current Code	Original Code		Fw	D	C	Dynamic	Static	Oil
mm			g	mm			N		rpm
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
	HK3018	57941/30	33.6	30	37	18	19200	31500	8100
	HK3020	67941/30	40.1	30	37	20	19700	33500	8100
	BK3020	65941/30	46.5	30	37	20	19700	33500	8100
	HK3020-K			30	37	20			
	HMK3020			30	40	20			
	HK3024			30	37	24			
	HMK3025			30	40	25			
	HK3026		52.9	30	37	26	24000	50000	8100
	BK3026		59.4	30	37	26	24000	50000	8100
	HK3030			30	37	30			
	HMK3030			30	40	30			
	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
	HMK3220			32	42	20			
	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	39	32	27990	59890	7100
HK32X41X16			32	41	16				

Shaft Diameter	Bearing Designation		Mass Approx	Boundary Dimensions			Basic Load Rating		Limiting Speed
	Current Code	Original Code		Fw	D	C	Dynamic	Static	Oil
mm			g	mm			N		rpm
35	HK3512	27941/35	27.7	35	40	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
	HK3520/ASI			35	42	20			
	HK3524			35	42	24			
	BK3530			35	42	30			
	HK3530			35	42	30			
	HMK3520			35	45	20			
	HMK3525			35	45	25			
	HMK3530			35	45	30			
	HK35X42X16	7941/35	37	35	42	16	24200	47100	7100
	HK35X43X25	7942/35	60.5	35	43	25	24440	48200	6200
	HK35X43X32	7943/35	80	35	43	32	24870	48880	6200
HK35X45X12		31	35	45	12	24870	48880	6200	
36	HK36X42X12		23	36	42	12	15000	21000	6200
38	HK3818			38	45	18			
	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
	HK4016	47941/40	41.4	40	47	16	20000	38500	6300
	BK4016	45941/40	51	40	47	16	20000	38500	6300
	HK4020	67941/40	51.8	40	47	20	25500	52000	6300
	BK4020	65941/40	62	40	47	20	25500	52000	6300
	HK4020/ASI			40	47	20			
	HK4026			40	47	26			
	HK4030			40	47	30			
	HMK4020			40	50	20			
	HK4025	TA4025		40	50	25			
	HMK4030			40	50	30			
	HK40X50X32	7942/40	114.3	40	50	32	23000	42000	6000
	HK40X50X38	7943/40	130.8	40	50	38	24100	43000	6000

Shaft Diameter	Bearing Designation		Mass Approx	Boundary Dimensions			Basic Load Rating		Limiting Speed
	Current Code	Original Code		Fw	D	C	Dynamic	Static	Oil
mm			g	mm			N		rpm
45	HK4512	27941/45	34.8	45	52	12	12900	22500	5800
	BK4512	25941/45	45	45	52	12	12900	22500	5800
	HK4512-K			45	52	12			
	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
	HK4520-ASI			45	52	20			
	HK4520-K			45	52	20			
	HK4520-YA			45	52	20			
	HMK4525			45	55	25			
	HMK4530			45	55	30			
	HMK4538			45	55	38			
	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
55	HK50X60X38		140	50	60	38	27770	63100	4600
	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

Shaft Diameter mm	Bearing Designation		Mass Approx g	Boundary Dimensions			Basic Load Rating		Limiting Speed Oil rpm
	Current Code	Original Code		Fw	D	C	Dynamic	Static	
				mm			N		
35	TLA 3516			35	42	16			
	TLA 3520			35	42	20			
	TLA 354320			35	43	20			
	TA 3512		38.5	35	45	12	1510	2030	10000
	TA 3515		48	35	45	15	1890	2710	10000
	TA 3520		62.5	35	45	20	2760	4400	10000
	TA 3530			35	45	30			
37	TA 3720		64.5	37	47	20	2830	4630	9500
	TA 3730		101	37	47	30	4270	7820	9500
38	TA 3815		51	38	48	15	1930	2860	9000
	TA 3820		65.5	38	48	20	2820	4640	9000
	TA 3825		82.5	38	48	25	3630	6430	9000
40	TLA 4012			40	47	12			
	TLA 4016			40	47	16			
	TA 4015		54	40	50	15	1980	3000	8500
	TA 4020		69.5	40	50	20	2900	4880	8500
45	TA 4520		77	45	55	20	3120	5570	7500
	TA 4525		102	45	55	25	4010	7710	7500
	TA 4530		122	45	55	30	4860	9850	7500
50	TLA 5020		69	50	58	20	2930	6540	6500
	TLA 5025		86	50	58	25	3760	9010	6500
	TA 5012		62.5	50	62	12	1800	2450	6500
	TA 5015		78	50	62	15	2630	3980	6500
	TA 5020		107	50	62	20	3870	6530	6500
	TA 5025		134	50	62	25	5000	9080	6500
	TAW 5045		230	50	62	45	7820	16100	6500
55	TA 5520		116	55	67	20	4040	7100	5500
	TA 5525		145	55	67	25	5220	9880	5500
	TA 5530		175	55	67	30	6320	12600	5500
	TAW 5550		280	55	67	50	9330	20900	5500
60	TA 6025		158	60	72	25	5570	11100	5000
	TA 6030		191	60	72	30	6760	14200	5000
	TA 6040		250	60	72	40	8740	19700	5000
62	TA 6212		78	62	74	12	2050	3090	4500
65	TA 6525		169	65	77	25	5760	11900	4000
	TA 6530		205	65	77	30	6980	15200	4000
70	TA 7025		181	70	82	25	5960	12700	3500

	TA 7030		220	70	82	30	7230	16200	3500
	TA 7040		290	70	82	40	9380	22700	3500

Shaft Diameter mm	Bearing Designation		Mass Approx g	Boundary Dimensions			Basic Load Rating		Limiting Speed Oil rpm
	Current Code	Original Code		Fw	D	C	Dynamic	Static	
				mm			N		
3.175 1/8	SCE 55 + 内套		0.004	3.175	12.7	8.334			
3.97 5/32	SCE 21/24TN			3.97	7.15	6.35			
4.762 3/16	SCE 34TN			4.762	8.731	6.35			
6.35 1/4	SCE 47		0.004	6.35	11.112	11.13			
	SCE 49			6.35	11.112	14.287			
	SCE 49PP			6.35	11.112	14.29			
7.938 5/16	SCE 55	BCE55	0.0032	7.938	12.7	7.938	2892	2625	29000
	SCE 56P		0.006	7.938	12.7	9.52			
	SCE 57		0.006	7.938	12.7	11.11			
	SCE 59		0.003	7.938	12.7	14.29			
9.525 3/8	SCE 65	BCE65	0.004	9.525	14.288	7.94	2892	2417	25000
	SCE 66		0.006	9.525	14.288	9.52	3900	3950	29500
	SCE 68		0.0065	9.525	14.288	12.7			
	SCE 68K			9.525	14.288	9.271			
	SCE 69P		0.007	9.525	14.288	14.29			
	SCE 69		0.004	9.525	14.288	14.29			
	SCE 610PP			9.525	14.288	15.88	3900	3950	29500
11.112 7/16	SCE 78		0.005	11.112	15.875	12.7	6400	7800	25000
12.7 1/2	SCE 85		0.0047	12.7	17.462	7.94			
	SCE 86		0.006	12.7	17.462	9.52			
	SCE 86A		0.007	12.7	17.462	9.52			
	SCE 87		0.006	12.7	17.462	11.11	7340	7800	22000
	SCE 88		0.009	12.7	17.462	12.7	6897	9033	19000
	SCE 810ZOH		0.009	12.7	17.462	15.88	8811	12237	19000
	SCE 810PP		0.009	12.7	17.462	15.88	8811	12237	19000
14.288 9/16	SCE 96		0.005	14.288	19.05	9.52	5162	6408	18000
	SCE 98		0.008	14.288	19.05	12.7	7698	10769	18000
	SCE 910		0.01	14.288	19.05	15.88	9434	14017	18000
	SCE 912		0.013	14.288	19.05	19.05	10724	16465	18000
15.875 5/8	SCE 105		0.0075	15.875	20.638	7.94	4300	5200	17600
	SCE 107-1/2		0.009	15.875	20.638	11.91	7100	10300	17600
	SCE108	BCE108	0.01	15.875	20.638	12.7	8743	12015	16000
	SCE109P			15.875	20.638	14.29	8743	12015	16000
	SCE1010		0.011	15.875	20.638	15.88	10368	16242	16000
	SCE1010PP		0.013	18.875	20.638	15.88	10368	16242	16000
	SCE1012		0.014	15.875	20.638	19.05	12015	19802	16000

	SCE1012PP		0.014	15.875	20.638	19.05	12015	19802	16000
17.462	SCE118		0.014	17.462	22.225	12.7	8600	13200	16000
11/16	SCE1112		0.016	17.462	22.225	19.05	12400	21000	16000
Shaft Diameter	Bearing Designation		Mass Approx	Boundary Dimensions			Basic Load Rating		Limiting Speed
	Current Code	Original Code		Fw	D	C	Dynamic	Static	
mm / inch			Kg	mm			N		rpm
19.05 3/4	SCE 128		0.013	19.05	25.4	12.7	9800	12500	14700
	SCE 120			19.05	34	14.5			
	SCE 129P		0.019	19.05	25.4	14.29	10000	13500	15200
	SCE 1210PPR		0.017	19.05	25.45	15.88	12682	17577	13000
	SCE 1211(P)		0.018	19.05	25.4	17.46	15352	22250	13000
	SCE 1212		0.021	19.05	25.4	19.05	15352	22250	13000
	SCE 1214PP			19.05	25.4	22.22			
SCE 1216		0.030	19.05	25.4	25.4				
20.638 13/16	SCE 1312		0.024	20.638	26.988	19.05	16020	23585	12000
22.225 7/8	SCE 146		0.013	22.225	28.575	9.52	8200	10700	12600
	SCE 148		0.019	22.225	28.575	12.7	11125	15797	11000
	SCE 148-OH		0.019	22.225	28.575	12.7	11125	15797	11000
	SCE 1412		0.028	22.225	28.575	19.05	16910	27145	11000
	SCE 1416		0.034	22.225	28.575	25.4	22100	38000	12600
25.4 1	SCE 168		0.019	25.4	31.75	12.7	12682	19135	10000
	SCE 1612		0.027	25.4	31.75	19.05	18022	30260	10000
	SCE 1614PP			25.4	31.75	22.22			
	SCE 1616		0.038	25.4	31.75	25.4	24920	45390	10000
	SCE 1616PP		0.038	25.4	31.75	25.4	24920	45390	10000
	SCE 1620		0.048	25.4	31.75	31.75			
28.575 1 1/8	SCE 188		0.021	28.575	34.925	12.7	12905	20247	9000
	SCE 1816	BCE1816	0.04	28.575	34.925	25.4	25810	49395	9000
	SCE 1820		0.053	28.575	34.925	31.75			
31.75 1 1/4	SCE 2020A			31.242	38.1	31.75			
	SCE 2010		0.03	31.75	38.1	15.88	21137	39605	8000
	SCE 2012		0.037	31.75	38.1	19.05	16500	29000	8000
	SCE 2016	BCE2016	0.045	31.75	38.1	25.4	27145	54735	8800
	SCE 2020		0.056	31.75	38.1	31.75			
34.925 1 3/8	SCE 228		0.025	34.925	41.275	12.7	13600	23700	8000
	SCE 2212		0.039	34.925	41.275	19.05	21360	42720	7500
	SCE 2216		0.058	34.925	41.275	25.4	27590	59185	7500
	SCE 2220		0.081	34.925	41.275	31.75	34000	77000	8000
38.1 1 1/2	SCE 2416		0.083	38.1	47.625	25.4	38715	66305	6500
	SCE 2420		0.105	38.1	47.625	31.75			
41.275 1 5/8	SCE 2620		0.11	41.275	50.8	31.75	51000	97000	6800
44.45 1 3/4	SCE 2812		0.082	44.45	53.975	19.05	31500	55000	6300



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	SCE 2816	BCE2816	0.115	44.45	53.975	25.4	41385	75650	6000
	SCE 2824		0.163	44.45	53.975	38.1			
50.8 2	SCE 3216		0.102	50.8	60.33	25.4			

Shaft Diameter	Bearing Designation		Mass Approx	Boundary Dimensions			Basic Load Rating		Limiting Speed
	Current Code	Original Code		Fw	D	C	Dynamic	Static	
mm / inch			Kg	mm			N		rpm
6.35 1/4	BA 44ZOH		2.1	6.35	11.112	6.35	150	110	55000
	BA 47ZOH		3.5	6.35	11.112	11.13	270	240	55000
7.938 5/16	BA 55ZOH		3	7.938	12.7	7.92	190	160	45000
	BA 57ZOH		4.3	7.938	12.7	11.13	340	330	45000
9.525 3/8	BA 66		4.2	9.525	14.288	9.525	320	310	40000
	BA 66ZOH		4.2	9.525	14.288	9.52	320	310	40000
	BA 68		5.7	9.525	14.288	12.7	430	470	40000
	BA 610Z		7	9.525	14.288	15.88	580	680	40000
12.7 1/2	BA 88ZOH		7.2	12.7	17.462	12.7	480	580	30000
	BA 810		8.9	12.7	17.462	15.88	650	850	30000
	BA 810ZOH		8.9	12.7	17.462	15.88	650	850	30000
	BA 812ZOH		10.6	12.7	17.462	19.05	800	1120	30000
14.288 9/16	BA 910ZOH		9.9	14.288	19.05	15.88	720	1010	30000
15.875 5/8	BA 105Z		5.3	15.875	20.638	7.94	290	330	25000
	BA 107ZOH		7.6	15.875	20.638	11.11	510	680	25000
	BA 108ZOH		8.7	15.875	20.638	12.7	550	740	25000
	BA 1010ZOH		10.8	15.875	20.638	15.88	750	1100	25000
	BA 1012Z		12.9	15.875	20.638	19.05	920	1430	25000
17.462 11/16	BA 118ZX		9.5	17.462	22.225	12.7	630	900	25000
19.05 3/4	BA 126ZOH		10	19.05	25.4	9.52	510	600	20000
	BA 128		13.5	19.05	25.4	12.7	700	890	20000
	BA128ZOH		13.5	19.05	25.4	12.7	700	890	20000
	BA 1210		17	19.05	25.4	15.88	970	1350	20000
	BA 1210ZOH		17	19.05	25.4	15.88	970	1350	20000
	BA 1212ZOH		20.5	19.05	25.4	19.05	1220	1800	20000
22.225 7/8	BA 146ZOH		11.5	22.225	28.575	9.52	550	690	18000
	BA 148ZOH		15.6	22.225	28.575	12.7	760	1080	18000
	BA 1412ZOH		23.5	22.225	28.575	19.05	1310	2080	18000
	BA 1416ZOH		31	22.225	28.575	25.4	1790	3110	18000
25.4 1	BA 1612		26.5	25.4	31.75	19.05	1450	2470	15000
	BA 1612ZOH		26.5	25.4	31.75	19.05	1450	2470	15000
	BA 1616		35.5	25.4	31.75	25.4	1980	3700	15000
	BA 1616ZOH		35.5	25.4	31.75	25.4	1980	3700	15000
28.575 1 1/8	BA 188		19.5	28.575	34.925	12.7	880	1360	13000
	BA 1816Z		39	28.575	34.925	25.4	2090	4110	13000

	BA 1816		39	28.575	34.925	25.4	2090	4110	13000
30.162 1 3/16	BA 1916ZOH		52	30.162	38.1	25.4	2630	4620	12000
31.75 1 1/4	BA 2012		32.5	31.75	38.1	19.05	1600	3020	12000
	BA 2012ZOH		32.5	31.75	38.1	19.05	1600	3020	12000

Shaft Diameter	Bearing Designation		Mass Approx	Boundary Dimensions			Basic Load Rating		Limiting Speed	
	Current Code	Original Code		Fw	D	C	Dynamic	Static	Oil	Oil
mm / inch			Kg	mm			N			rpm
4.76 3/16	J-35			4.76	8.73	9.525	257	352		75000
6.35 1/4	J-45			6.35	11.11	7.92	290	331		57000
	J-47			6.35	11.11	11.13	473	617		57000
7.94 5/16	J-55			7.94	12.7	7.92	315	383		44000
	J-57			7.94	12.7	11.13	560	805		44000
	JH-57			7.94	14.29	11.13	696	849		47000
9.525 3/8	J-65			9.525	14.29	7.92	358	474		36000
	J-66			9.525	14.29	9.52	500	728		36000
	J-68			9.525	14.29	12.7	755	1240		36000
	JH-68			9.525	15.88	12.7	987	1370		38000
11.11 7/16	J-78			11.11	15.88	12.7	882	1580		30000
	JH-78			11.11	17.46	12.7	1060	1510		30000
12.548 1/2	J-88K			12.548	17.463	12.7	914	1710		26000
14.288 9/16	J-910			14.288	19.05	15.88	1190	2490		23000
	J-108			15.88	20.64	12.7	970	1970		21000
15.88 5/8	JH-1010			15.88	22.225	15.88	1280	2930		21000
17.462 11/16	JH-1112			17.462	23.812	19.05	1830	4610		19000
19.05 3/4	J-1212			19.05	25.4	19.05	2320	4880		18000
22.225 7/8	J-148			22.225	28.58	12.7	1640	3270		15000
	JH-1412			22.225	30.16	19.05	2710	5450		15000
	JH-14160H			22.225	30.162	25.4	2710	5450		15000
25.4 1	JH-1616			25.4	33.34	25.4	4090	9570		13000
28.58 1 1/8	JH-1818			28.58	38.1	28.58	5440	12500		12000
35.61 1 2/5	JH-1470			35.61	57.2	17.8	5680	13500		10000
41.275 1 5/8	J-2616			41.275	50.8	25.4	5890	15600		7900
50.8 2	J-3216			50.8	60.32	25.4	6350	18400		6300

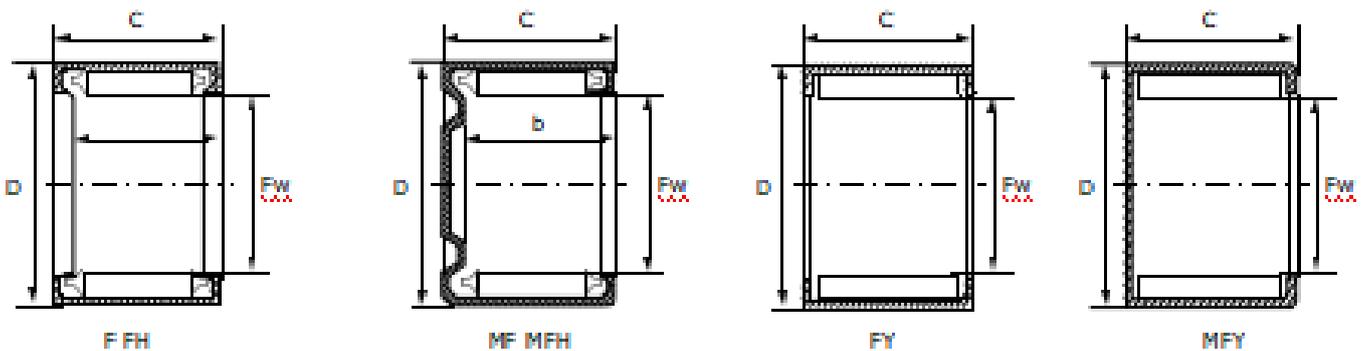
⊙ This kind bearing consists of full of needles extending to outer raceway, thus bearing high load. It is applied to the situation where the devices mounted with needle roller bearings run in swinging operation with low and middle speed. Since the bearings are fed with lubricating grease when are delivered, it is unnecessary to add the lubricating grease in assembling.

⊙ Model F, FH open-end drawn cup needle roller bearing with full of needles,

⊙ Model MF, MFH hole-sealed drawn cup needle roller bearing with full of needles,

⊙ Model FY open-end drawn cup needle roller bearing with full of flat-head needles,

⊙ Model MFY close-end drawn cup needle roller bearing with full of flat-head needles



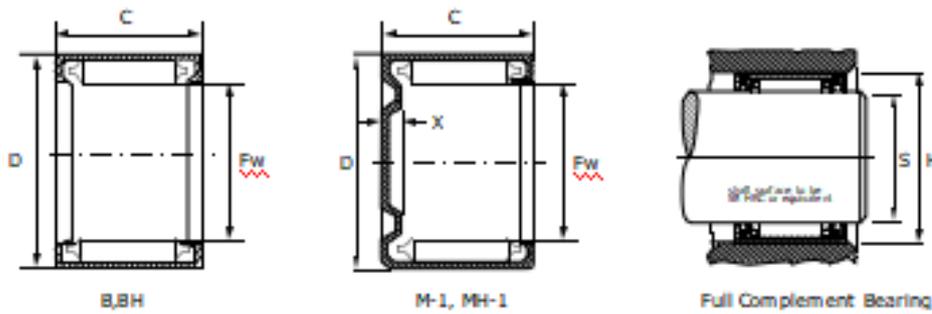
Shaft Diameter mm /inch	Bearing Designation		Mass Approx Kg	Boundary Dimensions			Basic Load Rating		Limiting Speed Oil rpm
	Current Code	Original Code		Fw	D	C	Dynamic	Static	
				mm			N		
6	F-0608	30941/6	2.5	6	10	8	3080	5800	12000
6.35	F6.35X11.11X11.13	B-47	3.2	6.35	11.11	11.13	3500	6050	12000
	MF6.35X11.11X11.13	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
	F-091510	941/9	6	9	15	10	8000	11500	7100
	F-091513	942/9	8	9	15	13	8560	12800	7100
9.52	F-9.52X14.29X12.7	B-68	7.5	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
	F-101615	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
	F-121712	941/12	8	12	17	12	8400	11900	7100
	F-121715	942/12	10.5	12	17	15	9000	12500	7100
	F-121718	943/12	13	12	17	18	9800	13500	7100

Shaft Diameter	Bearing Designation		Mass Approx	Boundary Dimensions			Basic Load Rating		Limiting Speed
	Current Code	Original Code		Fw	D	C	Dynamic	Static	Oil
mm / inch			Kg	mm			N		rpm
15	F-15X20X12	941/15	10	15	20	12	8400	11900	7100
	F-15X20X16	942/15	13.6	15	20	16	9500	12800	7100
	F-15X20X20	943/15	17.2	15	20	20	10500	16000	7100
	F-15X20X20	Y152020	20	15	20	20	10500	16000	7100
	F-1512	30941/15	12	15	21	12	9700	15900	8100
12	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
	F-1722	943/17		17	23	22	13500	24000	7100
18	F-1816	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
	F-20X26X25	943/20	33	20	26	25	20500	35500	6300
22	F-2212	30941/22	14	22	28	12	9000	13300	5800
	F-2216	50941/22	22	22	28	16	17000	33000	5800
	F-2220	70941/22	29	22	28	20	20300	47200	5800
25	F-2516	941/25	28	25	32	16	18700	37900	5100
	F-2522	942/25	40	25	32	22	11000	16500	5100
	F-25X32X25	943/25	43	25	32	25	11500	18500	5100
	F-25X33X08	Y253308	16.7	25	33	8	12200	16800	4300
	F-2512	20941/25	17	25	32	12	5250	6000	5100
	F-2520	60941/25	43	25	32	20	22800	46000	5100
28	F-2820	60941/28	118	28	35	20	25700	58300	4600
	F-2812	20941/28	31.7	28	35	12	16500	38600	4600
	F-2816	40941/28	36	28	35	16	20200	42900	4600
30	F-3020	60941/30	42	30	37	20	26800	62500	4300
	MF-3020	65941/30	48	30	37	20	26800	62500	4300
	F-30X38X16	941/30	37.5	30	38	16	25500	57500	4600
	F-30X38X24	942/30	37.5	30	38	24	28800	64500	4300
	F-30X38X32	943/30	81.5	30	38	32	34500	78900	4300
	F-3014	30941/30	37	30	37	14	19600	41200	4600
	F-3016	4094/30	40	30	37	16	21700	46500	4300
	F-3026		58.5	30	37	26	35000	74000	4300
32	F-32X39X32	943/32		32	39	32	35000	74000	4300
	F-3216	40941/32	35	32	39	16	25800	61500	4300



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Shaft Diameter	Bearing Designation		Mass Approx	Boundary Dimensions			Basic Load Rating		Limiting Speed
	Current Code	Original Code		Fw	D	C	Dynamic	Static	Oil
mm			g	mm			N		rpm
35	F-3520	60941/35	49	35	42	20	24000	69100	3700
	F-35X43X16	941/35	41	35	43	16	23500	68000	3700
	F-35X43X25	942/35	72	35	43	25	38700	86200	3200
	F-35X43X32	943/35	90	35	43	32	40500	98700	3200
	F-3512	20941/35	36	35	42	12	19000	59000	3700
40	F-4020	60941/40	56	40	47	20	30300	52600	3300
	FH-4032	942/40	88	40	50	32	42500	108000	2600
	MFH-4032	86942/40	95	40	50	32	42500	108000	2600
	FH-40X50X38	943/40	105	40	50	38	44800	118500	2600
	F-4016	40941/40	51	40	47	16	26500	62000	3300
45	F-4520		62	45	52	20	30400	30400	2900
	FH45X55X38	943/45	140	45	55	38	45800	45800	2900
	F-4516	40941/45	49	45	52	16	23800	65900	2900
50	F-5020	50941/50	78	50	58	20	35800	98000	2600
	FH-50X60X38	943/50	145	50	60	38	50500	145800	2600
55	F-5520	50941/55	97	55	63	20	39500	102000	2600
60	F-60X68X38	943/60	185	60	68	38	50200	145000	2600



Shaft Diameter	Boundary Dimensions mm/inch				Bearing Designation		Load Ratings kN/lbf		Limiting Speed		Wt. kg/lbs. Approx					
	+0 +0.000 -0.3 -0.100						Dynamic	Static	Dynamic	Oil	Open Ends	Closed Ends				
inch	Fw	D	C	Y			C	C <sub>0</sub>	RPM							
1/8	3.175	6.350	6.35	—	B-24	—	1.73	1.65	8100	13000	0.001	—				
	0.1250	0.2500	0.250				390	370			0.002					
5/32	3.970	7.142	6.35	—	B-2-1/2-4	—	2.00	2.00	7000	11000	0.001	—				
	0.1563	0.2812	0.250				450	450			0.002					
	3.970	7.142	7.92	—	B-2-1/2-5	—	2.58	2.80	7000	11000	0.001	—				
	0.1563	0.2812	0.312				580	630			0.003					
3/16	4.763	8.733	6.35	1.78	B-34	M-341	2.22	2.14	7000	11000	0.001	0.002				
	0.1875	0.3438	0.250	0.07			500	480			0.003	0.004				
	4.763	8.733	9.53	1.78	B-36	M-361	3.78	4.23	7000	11000	0.002	0.003				
	0.1875	0.3438	0.375	0.07			850	950			0.005	0.006				
1/4	6.350	11.113	6.35	2.03	B-44	M-441	2.76	2.62	6500	10000	0.002	0.003				
	0.2500	0.4375	0.250	0.08			620	590			0.005	0.006				
	6.350	11.113	7.92	2.03			B-45	M-451			3.56	3.69	6500	10000	0.003	0.004
	0.2500	0.4375	0.312	0.08							800	830			0.007	0.008
	6.350	11.113	9.53	—	B-46	—	4.54	5.03	6500	10000	0.004	—				
	0.2500	0.4375	0.375				1020	1130			0.008					
	6.350	11.113	11.13	2.03	B-47	M-471	5.52	6.45	6500	10000	0.004	0.005				
	0.2500	0.4375	0.438	0.08			1240	1450			0.009	0.011				
5/16	7.938	12.700	7.92	2.03	B-55	M-551	4.09	4.58	5400	8300	0.004	0.004				
	0.3125	0.5000	0.312	0.08			920	1030			0.008	0.009				
	7.938	12.700	9.53	—			B-56	—			5.25	6.32	5400	8300	0.005	—
	0.3125	0.5000	0.375								1180	1420			0.010	
	7.938	12.700	11.13	2.03			B-57	M-571			6.32	8.1	5400	8300	0.005	0.006
	0.3125	0.5000	0.438	0.08							1420	1820			0.011	0.013
	7.938	12.700	14.27	—	B-59	—	8.36	11.60	5400	8300	0.006	—				
	0.3125	0.5000	0.562				1880	2600			0.014					
	7.938	14.288	11.13	2.29	BH-57	MH-571	7.03	7.34	7500	12000	0.007	0.008				
	0.3125	0.5625	0.438	0.09			1580	1650			0.016	0.018				
	7.938	14.288	14.27	—	BH-59	—	9.47	10.80	7500	12000	0.009	—				
	0.3125	0.5625	0.562				2130	2420			0.020					

Shaft Diameter	Boundary Dimensions mm/inch				Bearing Designation		Load Ratings kN/lbf		Limiting Speed		Wt. kg/lbs. Approx	
	+0 +0.000 -0.3 -0.100						Dynamic	Static	Dynamic	Oil	Open Ends	Closed Ends
inch	Fw	D	C	Y			C	C <sub>0</sub>	RPM			
3/8	9.525	14.288	7.92	2.03	B-65	MH-651	4.54	5.52	4600	7100	0.004	0.005
	0.3750	0.5625	0.312	0.08			1020	1240			0.009	0.010
	9.525	14.288	9.53	2.03	B-66	MH-661	5.83	7.61	4600	7100	0.005	0.005
	0.3750	0.5625	0.375	0.08			1310	1710			0.011	0.012
	9.525	14.288	11.13	—	B-67	—	7.07	9.7	4600	7100	0.006	—
	0.3750	0.5625	0.438				1590	2180			0.013	
	9.525	14.288	12.70	2.03	B-68	M-681	8.18	11.80	4600	7100	0.007	0.008
0.3750	0.5625	0.500	0.08			1840	2650			0.015	0.017	
3/8	9.525	14.288	14.27	—	B-69	—	9.34	13.92	4600	7100	0.007	—
	0.3750	0.5625	0.562				2100	3130			0.016	
	9.525	14.288	15.88	2.03	B-610	M-6101	10.4	16.00	4600	7100	0.008	0.01
	0.3750	0.5625	0.625	0.08			2340	3590			0.018	0.021
	9.525	15.875	12.70	—	BH-68	—	9.34	10.90	6500	10000	0.010	0.000
	0.3750	0.6250	0.500				2100	2460			0.021	
	7/16	11.113	15.875	9.53	—	B-76	—	6.36	8.90	4100	6300	0.005
0.4375		0.6250	0.375				1430	2000			0.012	
11.113		15.875	11.13	—	B-77	—	7.70	11.3	4100	6300	0.007	—
0.4375		0.6250	0.438				1730	2550			0.015	
11.113		15.875	12.70	2.03	B-78	M-781	8.99	13.80	4100	6300	0.008	0.009
0.4375	0.6250	0.500	0.08			2020	3100			0.017	0.019	
7/16	11.113	15.875	15.88	—	B-710	—	11.3	18.7	4100	6300	0.010	—
	0.4375	0.6250	0.625				2550	4200			0.021	
	11.113	17.463	12.70	—	BH-78	—	10.3	12.8	5700	8800	0.010	—
0.4375	0.6875	0.500				2320	2870			0.023		

Shaft Diameter	Boundary Dimensions mm/inch				Bearing Designation		Load Ratings kN/lbf		Limiting Speed		Wt. kg/lbs. Approx	
	+0 +0.000 -0.3 -0.100						Dynamic	Static	Dynamic	Oil	Open Ends	Closed Ends
	inch	Fw	D	C	Y			C	C <sub>0</sub>	RPM		
1/2	12.700 0.5000	17.463 0.6875	7.92 0.312	2.03 0.08	B-85	M-851	5.34 1200	7.38 1660	3600	5600	0.005 0.012	0.006 0.014
	12.700 0.5000	17.463 0.6875	9.53 0.375	2.03 0.08	B-86	M-861	6.85 15.40	10.1 2280	3600	5600	0.006 0.014	0.007 0.016
	12.700 0.5000	17.463 0.6875	11.13 0.438	2.03 0.08	B-87	M-871	8.32 1870	13.0 2920	3600	5600	0.007 0.016	0.008 0.018
	12.700 0.5000	17.463 0.6875	12.70 0.500	2.03 0.08	B-88	M-881	9.61 2160	15.7 3530	3600	5600	0.009 0.019	0.010 0.021
	12.700 0.5000	17.463 0.6875	15.88 0.625	2.03 0.08	B-810	M-8101	12.2 2750	21.34 4800	3600	5600	0.010 0.023	0.012 0.026
	12.700 0.5000	17.463 0.6875	19.05 0.750	2.03 0.08	B-812	M-8121	14.7 3300	27.0 6060	3600	5600	0.013 0.028	0.014 0.031
	12.700 0.5000	19.050 0.7500	11.13 0.438	—	BH-87	—	9.47 2130	11.8 2650	5100	7900	0.010 0.023	—
	12.700 0.5000	19.050 0.7500	12.70 0.500	—	BH-88	—	11.2 2510	14.6 3280	5100	7900	0.012 0.026	—
	12.700 0.5000	19.050 0.7500	15.88 0.625	—	BH-810	—	14.4 3230	20.2 4540	5100	7900	0.015 0.033	—
	12.700 0.5000	19.050 0.7500	19.05 0.750	2.29 0.09	BH-812	MH-8121	17.4 3910	25.8 5790	5100	7900	0.018 0.039	0.020 0.044
9/16	14.288 0.5625	19.050 0.7500	7.92 0.312	2.03 0.08	B-95	M-951	5.74 1290	8.32 1870	3300	5500	0.006 0.013	0.006 0.014
	14.288 0.5625	19.050 0.7500	9.53 0.375	2.03 0.08	B-96	M-961	7.34 1650	11.4 2570	3300	5500	0.007 0.015	0.008 0.018
	14.288 0.5625	19.050 0.7500	11.13 0.438	2.03 0.08	B-97	M-971	8.85 1990	14.6 3280	3300	5500	0.008 0.018	0.010 0.021
	14.288 0.5625	19.050 0.7500	12.70 0.500	2.03 0.08	B-98	M-981	10.3 2320	17.7 3990	3300	5500	0.009 0.020	0.010 0.023
	14.288 0.5625	19.050 0.7500	15.88 0.625	2.03 0.08	B-910	M-9101	13.1 2940	24.0 5400	3300	5500	0.012 0.026	0.013 0.029
	14.288 0.5625	19.050 0.7500	19.05 0.750	2.03 0.08	B-912	M-9121	15.7 3520	30.3 6820	3300	5500	0.014 0.031	0.015 0.034
	14.288 0.5625	20.638 0.8125	12.70 0.500	—	BH-98	—	12.0 2690	16.5 3700	4600	7100	0.013 0.029	—
	14.288 0.5625	20.638 0.8125	15.88 0.625	—	BH-910	—	15.4 3460	22.7 5110	4600	7100	0.016 0.036	—
	14.288 0.5625	20.638 0.8125	19.05 0.750	—	BH-912	—	18.6 4190	29.0 6520	4600	7100	0.020 0.043	—

Shaft Diameter	Boundary Dimensions mm/inch				Bearing Designation		Load Ratings kN/lbf		Limiting Speed		Wt. kg/lbs. Approx	
	+0 +0.000 -0.3 -0.100						Dynamic	Static	Dynamic	Oil	Open Ends	Closed Ends
inch	Fw	D	C	Y			C	C <sub>0</sub>	RPM			
5/8	15.875 0.6250	20.638 0.8125	7.92 0.312	2.03 0.08	B-105	M-1051	6.1 1360	9.25 2080	3000	4500	0.006 0.014	0.007 0.016
	15.875 0.6250	20.638 0.8125	11.13 0.438	2.03 0.08	B-107	M-1071	9.39 2110	16.2 3650	3000	4500	0.009 0.020	0.010 0.022
	15.875 0.6250	20.638 0.8125	12.70 0.500	2.03 0.08	B-108	M-1081	10.9 2450	19.7 4430	3000	4500	0.010 0.022	0.012 0.026
	15.875 0.6250	20.638 0.8125	15.88 0.625	2.03 0.08	B-1010	M-10101	13.80 3110	26.7 6000	3000	4500	0.013 0.028	0.015 0.032
	15.875 0.6250	20.638 0.8125	19.05 0.750	2.03 0.08	B-1012	M-10121	16.6 3720	33.7 7580	3000	4500	0.015 0.034	0.017 0.038
	15.875 0.6250	22.212 0.8745	12.70 0.500	2.29 0.09	BH-108	MH-1081	12.7 2860	18.3 4110	4200	6500	0.014 0.031	0.016 0.035
	15.875 0.6250	22.212 0.8745	15.88 0.625	—	BH-1010	—	16.4 3680	25.3 5680	4200	6500	0.018 0.039	—
	15.875 0.6250	22.212 0.8745	19.05 0.750	—	BH-1012	—	19.8 4450	32.3 7250	4200	6500	0.021 0.047	—
	15.875 0.6250	22.212 0.8745	25.40 1.000	—	BH-1016	—	26.2 5890	46.3 10400	4200	6500	0.028 0.062	—
11/16	17.463 0.6875	22.212 0.8745	9.53 0.375	2.03 0.08	B-116	M-1161	8.18 1840	14.0 3140	2700	4200	0.008 0.018	0.009 0.020
	17.463 0.6875	22.212 0.8745	12.70 0.500	2.03 0.08	B-118	M-1181	11.5 2580	21.7 4880	2700	4200	0.011 0.024	0.012 0.027
	17.463 0.6875	22.212 0.8745	15.88 0.625	2.03 0.08	B-1110	M-11101	14.6 3270	29.4 6610	2700	4200	0.014 0.030	0.015 0.034
	17.463 0.6875	22.212 0.8745	19.05 0.750	2.03 0.08	B-1112	M-11121	17.4 3920	37.1 8340	2700	4200	0.016 0.036	0.019 0.041
	17.463 0.6875	23.813 0.9375	11.13 0.438	—	BH-117	—	11.4 2560	16.2 3650	3900	6000	0.014 0.030	—
	17.463 0.6875	23.813 0.9375	15.88 0.625	2.29 0.09	BH-1110	MH-11101	17.3 3890	27.8 6250	3900	6000	0.019 0.042	0.021 0.047
	17.463 0.6875	23.813 0.9375	19.05 0.750	—	BH-1112	—	20.9 4700	35.5 7980	3900	6000	0.023 0.051	—

Shaft Diameter	Boundary Dimensions mm/inch				Bearing Designation		Load Ratings kN/lbf		Limiting Speed		Wt. kg/lbs. Approx	
	+0 +0.000-0.3 -0.100						Dynamic	Static	Dynamic	Oil	Open Ends	Closed Ends
inch	Fw	D	C	Y			C	C <sub>0</sub>	RPM			
3/4	19.050	25.400	9.53	2.29	B-126	M-1261	9.7	13.6	3600	5600	0.012	0.014
	0.7500	1.0000	0.375	0.09			2180	3050			0.027	0.031
	19.050	25.400	12.70	2.29	B-128	M-1281	14.1	22.0	3600	5600	0.016	0.019
	0.7500	1.0000	0.500	0.09			3170	4940			0.036	0.041
	19.050	25.400	15.88	2.29	B-1210	M-12101	18.2	30.3	3600	5600	0.020	0.024
	0.7500	1.0000	0.625	0.09			4080	6820			0.045	0.041
	19.050	25.400	19.05	2.29	B-1212	M-12121	21.9	38.7	3600	5600	0.024	0.028
	0.7500	1.0000	0.750	0.09			4930	8710			0.054	0.062
13/16	20.638	26.988	9.53	—	B-136	—	10.1	14.68	3400	5200	0.013	—
	0.8125	1.0625	0.375				2280	3300			0.029	
	20.638	26.988	12.70	2.29	B-138	M-1381	14.8	23.80	3400	5200	0.018	0.020
	0.8125	1.0625	0.500	0.09			3320	5350			0.039	0.044
	20.638	26.988	22.23	2.29	B-1314	M-13141	26.7	51.15	3400	5200	0.031	0.035
	0.8125	1.0625	0.875	0.09			6010	11500			0.068	0.077
	20.638	26.988	25.40	2.29	B-1316	M-13161	30.3	60.05	3400	5200	0.035	0.040
	0.8125	1.0625	1.000	0.09			6820	13500			0.078	0.088
	20.638	26.988	31.75	2.79	B-1320	—	37.3	78.29	3500	5200	0.044	—
	0.8125	1.0625	1.250	0.11			8380	17600			0.098	
	20.638	28.575	12.70	2.79	BH-138	MH-1381	14.9	20.82	4100	6300	0.023	0.026
	0.8125	1.1250	0.500	0.11			3340	4680			0.050	0.057
20.638	28.575	15.88	2.79	B-1310	MH-	19.70	29.89	4100	6300	0.029	0.032	
0.8125	1.1250	0.625	0.11		13101	4430	6720			0.063	0.071	
20.638	28.575	19.05	2.79	B-1312	MH-	24.2	38.97	4100	6300	0.034	0.039	
0.8125	1.1250	0.750	0.11		13121	5440	8760			0.076	0.086	
7/8	22.225	28.575	9.53	2.29	B-146	M-1461	10.5	15.84	3100	4800	0.014	0.016
	0.8750	1.1250	0.375	0.09			2370	3560			0.031	0.035
	22.225	28.575	12.70	2.29	B-148	M-1481	15.4	25.62	3100	4800	0.019	0.022
	0.8750	1.1250	0.500	0.09			6450	5760			0.042	0.048
	22.225	28.575	19.05	2.29	B-1412	M-14121	23.9	45.37	3100	4800	0.028	0.032
	0.8750	1.1250	0.750	0.09			5370	10200			0.062	0.070
	22.225	28.575	25.40	2.29	B-1416	M-14161	31.6	64.94	3100	4800	0.038	0.043
	0.8750	1.1250	1.000	0.09			7100	14600			0.083	0.094
	22.225	28.575	28.58	—	B-1418	—	35.2	74.73	3100	4800	0.043	—
	0.8750	1.1250	1.125				7920	16800			0.094	
	22.225	30.163	15.88	2.79	BH-1410	MH-	20.3	32.21	3800	5880	0.030	0.035
	0.8750	1.1875	0.625	0.11		14101	4570	7240			0.067	0.076
22.225	30.163	19.05	2.79	BH-1412	MH-	25.0	41.99	3800	5880	0.036	0.041	
0.8750	1.1875	0.750	0.11		14121	5620	9440			0.080	0.091	



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	22.225	30.163	25.40	—	BH-1416	—	33.7	61.369	3800	5880	0.049	—
	0.8750	1.1875	1.000				7570	13800			0.107	

Shaft Diameter	Boundary Dimensions mm/inch				Bearing Designation		Load Ratings kN/lbf		Limiting Speed		Wt. kg/lbs. Approx	
	+0 +0.000 -0.3 -0.100						Dynamic	Static	Dynamic	Oil	Open Ends	Closed Ends
inch	Fw	D	C	Y			C	C <sub>0</sub>	RPM			
15/16	23.813	30.163	12.70	—	B-158	—	15.9	27.49	3000	4500	0.020	—
	0.9375	1.1875	0.500				3580	6180			0.044	
	23.813	30.163	25.40	2.29	B-1516	M-15161	32.8	69.39	3000	4500	0.040	0.045
	0.9375	1.1875	1.000	0.09			7370	15600			0.088	0.100
1/2	25.400	31.750	9.53	—	B-166	—	11.3	18.10	2800	4300	0.016	—
	1.0000	1.2500	0.375				2550	4070			0.035	
	25.400	31.750	11.13	2.29	B-167	M-1617	14.0	23.66	2800	4300	0.019	0.021
	1.0000	1.2500	0.438	0.09			3140	5320			0.041	0.046
	25.400	31.750	15.88	2.29	B-1610	M-16101	21.3	40.52	2800	4300	0.026	0.030
	1.0000	1.2500	0.625	0.09			4770	9110			0.058	0.066
	25.400	31.750	19.05	2.29	B-1612	M-16121	25.7	51.60	2800	4300	0.032	0.036
	1.0000	1.2500	0.750	0.09			5770	11600			0.070	0.080
	25.400	31.750	25.40	2.29	B-1616	M-16161	33.9	74.29	2800	4300	0.043	0.048
	1.0000	1.2500	1.000	0.09			7630	16700			0.094	0.106
	25.400	33.338	12.70	2.79	BH-168	MH-1681	16.6	25.6	3400	5200	0.027	0.031
	1.0000	1.3125	0.500	0.11			3740	5760			0.060	0.068
	25.400	33.338	15.88	—	BH-1610	—	22.0	36.8	3400	5200	0.034	—
	1.0000	1.3125	0.625				4950	8280			0.075	
25.400	33.338	19.05	2.79	BH-1612	MH-16121	27.1	48.0	3400	5200	0.041	0.046	
1.0000	1.3125	0.750	0.11			6090	10800			0.090	0.102	
25.400	33.338	22.23	—	BH-1614	—	31.9	59.2	3400	5200	0.048	—	
1.0000	1.3125	0.875				7170	13300			0.105		
25.400	33.338	25.40	2.79	BH-1616	MH-16161	36.5	70.3	3400	5200	0.054	0.062	
1.0000	1.3125	1.000	0.11			8200	15800			0.120	0.136	
25.400	33.338	31.75	—	BH-1620	—	45.4	93.0	3400	5200	0.068	—	
1.0000	1.3125	1.250				10200	20900			0.150		
25.400	33.338	38.10	2.79	BH-1624	MH-16241	53.4	115.2	3400	5200	0.082	0.093	
1.0000	1.3125	1.500	0.11			12000	25900			0.180	0.204	
1 <sup>1</sup> / <sub>16</sub>	26.988	33.338	15.88	2.29	B-1710	M-17101	21.9	43.1	2600	4000	0.028	0.032
	1.0625	1.3125	0.625	0.09			4930	9680			0.062	0.070
	26.988	34.925	19.05	—	BH-1712	—	29.49	52.49	2300	3400	0.035	—
	1.0625	1.3750	0.750				6630	11800			0.075	

Shaft Diameter	Boundary Dimensions mm/inch				Bearing Designation		Load Ratings kN/lbf		Limiting Speed		Wt. kg/lbs. Approx		
	+0 +0.000 -0.3 -0.100						Dynamic	Static	Dynamic	Oil	Open Ends	Closed Ends	
inch	Fw	D	C	Y			C	C <sub>0</sub>	RPM				
1 <sup>1</sup> / <sub>8</sub>	28.575	34.925	9.53	2.29	B-186	M-1861	12.1	20.37	2500	3800	0.018	0.020	
	1.1250	1.3750	0.375	0.09			2720	4580			0.039	0.044	
	28.575	34.925	12.70	2.29	B-188	M-1881	17.6	33.0	2500	3800	0.024	0.027	
	1.1250	1.3750	0.500	0.09			3950	7420			0.052	0.059	
	28.575	34.925	15.88	—	B-1810	—	22.6	45.8	2500	3800	0.029	—	
	1.1250	1.3750	0.625				5080	10300			0.065		
	28.575	34.925	19.05	2.29	B-1812	M-18121	27.3	58.3	2500	3800	0.035	0.040	
	1.1250	1.3750	0.750	0.09			6140	13100			0.078	0.088	
	28.575	34.925	25.40	2.29	B-1816	M-18161	36.2	83.6	2500	3800	0.047	0.054	
	1.1250	1.3750	1.000	0.09			8130	18800			0.104	0.118	
1 <sup>3</sup> / <sub>16</sub>	28.575	38.100	19.05	3.05	BH-1812	MH-18121	31.5	52.9	3600	5600	0.056	0.063	
	1.1250	1.5000	0.750	0.12			7090	11900			0.123	0.138	
	28.575	38.100	25.40	3.05	BH-1816	MH-18161	42.5	77.8	3600	5600	0.074	0.084	
	1.1250	1.5000	1.000	0.12			9560	17500			0.164	0.186	
	28.575	38.100	31.75	3.05	BH-1820	MH-18201	52.9	103.2	3600	5600	0.093	0.105	
	1.1250	1.5000	1.250	0.12			11900	23200			0.205	0.232	
	1 <sup>3</sup> / <sub>16</sub>	30.163	38.100	15.88	2.79	B-1910	M-19101	24.1	43.8	2900	4400	0.040	0.045
		1.1875	1.5000	0.625	0.11			5420	9840			0.088	0.099
	1 <sup>1</sup> / <sub>4</sub>	30.163	38.100	25.40	—	B-1916	—	40.0	83.6	2900	4400	0.064	—
		1.1875	1.5000	1.000				8980	18800			0.140	
31.750		38.100	12.70	2.29	B-208	M-2081	18.6	36.6	2300	3500	0.026	0.029	
1.2500		1.5000	0.500	0.09			4170	8240			0.057	0.065	
31.750		38.100	15.88	2.29	B-2010	M-20101	23.9	50.7	2300	3500	0.032	0.044	
1.2500		1.5000	0.625	0.09			5370	11400			0.071	0.097	
31.750		38.100	19.05	2.29	B-2012	M-20121	28.9	64.5	2300	3500	0.039	0.045	
1.2500		1.5000	0.750	0.09			6490	14500			0.086	0.099	
31.750		38.100	25.40	2.29	B-2016	M-20161	38.2	92.5	2300	3500	0.052	0.059	
1.2500		1.5000	1.000	0.09			8590	20800			0.114	0.130	
1 <sup>1</sup> / <sub>4</sub>	31.750	38.100	31.75	2.29	B-2020	M-20201	47.2	121	2300	3500	0.065	0.073	
	1.2500	1.5000	1.250	0.09			10600	27200			0.143	0.162	
	31.750	41.275	12.70	3.05	BH-208	MH-2081	19.7	30	3300	5000	0.041	0.046	
	1.2500	1.6250	0.500	0.12			4420	6750			0.090	0.102	
	31.750	41.275	19.05	3.05	BH-2012	MH-20121	33.1	58.7	3300	5000	0.061	0.069	
	1.2500	1.6250	0.750	0.12			7440	13200			0.135	0.153	



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	31.750	41.275	25.40	3.05	BH-2016	MH-20161	44.98	86.7	3300	5000	0.081	0.092
	1.2500	1.6250	1.000	0.12			10100	19500			0.179	0.203
	31.750	41.275	31.75	3.05	BH-2020	MH-20201	56.0	115	3300	5000	0.102	0.115
	1.2500	1.6250	1.250	0.12			12600	25800			0.224	0.254

Shaft Diameter	Boundary Dimensions mm/inch				Bearing Designation		Load Ratings		Limiting Speed		Wt. kg/lbs. Approx	
	+0 +0.000 -0.3 -0.100						Dynamic	Static	Dynamic	Oil	Open Ends	Closed Ends
							C	C <sub>0</sub>	RPM			
inch	Fw	D	C	Y								
1 <sup>5</sup> / <sub>16</sub>	33.338	41.275	12.70	2.79	B-218	M-2181	19.3	33.7	2600	4100	0.034	0.039
	1.3125	1.6250	0.500	0.11			4330	7570			0.076	0.086
	33.338	41.275	15.88	2.78	B-2110	M-20101	25.5	48.5	2600	4100	0.043	0.049
	1.3125	1.6250	0.625	0.11			5740	10900			0.095	0.108
	33.338	41.275	31.75	—	B-2120	—	52.5	122	2600	4100	0.087	—
	1.3125	1.6250	1.250				11800	27500			0.191	
1 <sup>3</sup> / <sub>8</sub>	34.925	41.275	12.70	2.29	B-228	M-2281	19.5	40.4	2100	3200	0.028	0.032
	1.3750	1.6250	0.500	0.09			4390	9070			0.062	0.070
	34.925	41.275	19.05	2.29	B-2212	M-22121	30.4	71.2	2100	3200	0.043	0.049
	1.3750	1.6250	0.750	0.09			6830	16000			0.094	0.107
	34.925	41.275	25.40	2.29	B-2216	M-22161	40.2	102	2100	3200	0.057	0.064
	1.3750	1.6250	1.000	0.09			9030	22900			0.125	0.142
	34.925	41.275	31.75	2.29	B-2220	M-22201	49.4	133	2100	3200	0.071	0.080
	1.3750	1.6250	1.250	0.09			11100	29900			0.156	0.177
	34.925	44.450	12.70	—	BH-228	—	21.2	33.5	3000	4700	0.044	—
	1.3750	1.7500	0.500				4770	7540			0.098	
	34.925	44.450	15.88	—	BH-2210	—	28.5	48.9	3000	4700	0.055	—
	1.3750	1.7500	0.625				6410	11000			0.122	
34.925	44.450	19.05	3.05	BH-2212	3.05	35.3	64.5	3000	4700	0.066	0.075	
1.3750	1.7500	0.750	0.12		0.12	7930	14500			0.146	0.165	
34.925	44.450	25.40	3.05	BH-2216	3.05	47.6	94.8	3000	4700	0.088	0.100	
1.3750	1.7500	1.000	0.12		0.12	10700	21300			0.195	0.221	
34.925	44.450	31.75	—	BH-2220	—	59.6	126	3000	4700	0.111	0.125	
1.3750	1.7500	1.250				13400	28300			0.244	0.276	
1 <sup>1</sup> / <sub>2</sub>	38.100	47.625	12.70	3.05	B-248	3.05	22.3	37.1	2800	4300	0.048	0.054
	1.5000	1.8750	0.500	0.12		0.12	5020	8340			0.105	0.119
	38.100	47.625	15.88	3.05	B-2410	M-24101	29.8	53.8	2800	4300	0.060	0.068
	1.5000	1.8750	0.625	0.12			6710	12100			0.132	0.150
	38.100	47.625	19.05	3.05	B-2412	M-24121	36.9	70.7	2800	4300	0.072	0.081
	1.5000	1.8750	0.750	0.12			8290	15900			0.158	0.179

	38.100	47.625	22.23	3.05	B-2414	M-	43.5	87.6	2800	4300	0.083	0.095
	1.5000	1.8750	0.875	0.12		24141	9780	19700			0.184	0.209
	38.100	47.625	25.40	3.05	B-2416	M-	49.8	103	2800	4300	0.096	0.108
	1.5000	1.8750	1.000	0.12		24161	11200	23300			0.211	0.239
	38.100	47.625	31.75	3.05	B-2420	M-	61.8	138	2800	4300	0.119	0.135
	1.5000	1.8750	1.250	0.12		24201	13900	31000			0.263	0.298

Shaft Diameter	Boundary Dimensions mm/inch				Bearing Designation		Load Ratings kN/lbf		Limiting Speed		Wt. kg/lbs. Approx	
	+0 +0.000 -0.3 -0.100						Dynamic	Static	Dynamic	Oil	Open Ends	Closed Ends
inch	Fw	D	C	Y			C	C <sub>0</sub>	RPM			
1 <sup>5</sup> / <sub>8</sub>	41.275	50.800	12.70	—	B-268	—	22.8	39.2	2600	3900	0.051	—
	1.6250	2.0000	0.500				5120	8820			0.113	
	41.275	50.800	15.88	3.05	B-2610	M-26101	30.6	57.4	2600	3900	0.064	0.073
	1.6250	2.0000	0.625	0.12			6890	12900			0.141	0.16
1 <sup>3</sup> / <sub>4</sub>	41.275	50.800	25.40	—	B-2616	—	51.6	112	2600	3900	0.103	—
	1.6250	2.0000	1.000				11600	25200			0.226	
	41.275	50.800	31.72	3.05	B-2620	M-26201	64.0	149	2600	3900	0.128	0.145
	1.6250	2.0000	1.250	0.12			14400	33400			0.282	0.32
1 <sup>3</sup> / <sub>4</sub>	44.450	53.975	19.05	3.05	B-2812	M-28121	39.3	81.4	2400	3700	0.082	0.093
	1.7500	2.1250	0.750	0.12			8830	18300			0.181	0.205
	44.450	53.975	25.40	3.05	B-2816	M-28161	53.4	121	2400	3700	0.110	0.124
	1.7500	2.1250	1.000	0.12			12000	27100			0.242	0.274
1 <sup>7</sup> / <sub>8</sub>	44.450	53.975	31.75	—	B-2820	—	66.3	160	2400	3700	0.137	—
	1.7500	2.1250	1.250				14900	36000			0.302	
	44.450	53.975	38.10	3.05	B-2824	M-26241	78.7	199	2400	3700	0.165	0.186
	1.7500	2.1250	1.500	0.12			17700	44800			0.363	0.411
1 <sup>7</sup> / <sub>8</sub>	47.625	57.150	12.70	3.05	B-308	M-3081	25.1	46.3	2300	3500	0.059	0.066
	1.8750	2.2500	0.500	0.12			5650	10400			0.129	0.146
	47.625	57.150	15.888	—	B-3010	—	33.6	67.61	2300	3500	0.073	—
	1.8750	2.2500	0.625				7550	15200			0.161	
1 <sup>7</sup> / <sub>8</sub>	47.625	57.150	19.05	—	B-3012	—	41.5	88.5	2300	3500	0.088	—
	1.8750	2.2500	0.750				9330	19900			0.193	
	47.625	57.150	25.40	3.05	B-3016	M-30161	56.0	130	2300	3500	0.117	0.132
	1.8750	2.2500	1.000	0.12			12600	29200			0.258	0.292
2	50.800	60.325	12.70	3.05	B-328	M-3281	25.4	48.0	2100	3300	0.062	0.070
	2.0000	2.3750	0.500	0.12			5710	10800			0.136	0.154
	50.800	60.325	15.88	—	B-3210	—	34.2	70.7	2200	3300	0.078	—
2	2.0000	2.3750	0.625				7680	15900			0.171	
	50.800	60.325	22.23	—	B-3216	—	54.3	115	2200	3300	0.108	—
2	2.0000	2.3750	0.875				11300	26000			0.239	



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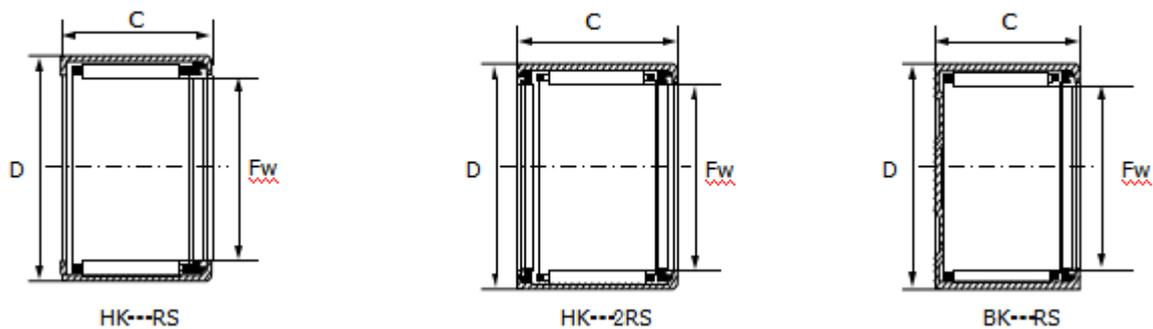
50.800	60.325	25.40	3.05	B-3016	M-32161	57.4	138	2100	3300	0.124	0.140
2.0000	2.3750	1.000	0.12			12900	31000			0.273	0.309
50.800	60.325	31.75	3.05	B-3220	M-32201	71.6	183	2100	3300	0.155	0.175
2.0000	2.3750	1.250	0.12			16100	41100			0.341	0.386
50.800	60.325	38.10	3.05	B-3224	M-32241	85.0	228	2100	3300	0.186	0.211
2.0000	2.3750	1.500	0.12			19100	51200			0.410	0.465
50.800	60.325	44.45	3.05	B-3228	M-32281	97.4	273	2100	3300	0.217	0.245
2.0000	2.3750	1.750	0.12			21900	61300			0.478	0.541

⊙ The sealed drawn cup needle roller bearing is mounted with sealing lip. In general, the sealing lip can protect bearing from penetration of impurities and leakage of lubricating grease. The seal ring is made of synthetic rubber with operating temperature in  $-20^{\circ}\text{C}$  to  $120^{\circ}\text{C}$ . The bearings are fed with high-quality lithium base grease. In addition, it is standard design for drawn cup needle roller bearing without oil hole and double row drawn cup needle roller bearing with oil hole. It should be stated in order if changed.

⊙ Model HK 2RS open-end double-seal drawn cup needle roller bearing,

⊙ Model HK RS open-end single-seal drawn cup needle roller bearing,

⊙ Model BK RS close-end single seal drawn cup needle roller bearing



Shaft Diameter	Bearing Designation	Mass Approx	Boundary Dimensions			Basic Load Rating		Limiting Speed
			Fw	D	C	Dynamic	Static	
mm	Current Code	g	mm			N		rpm
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

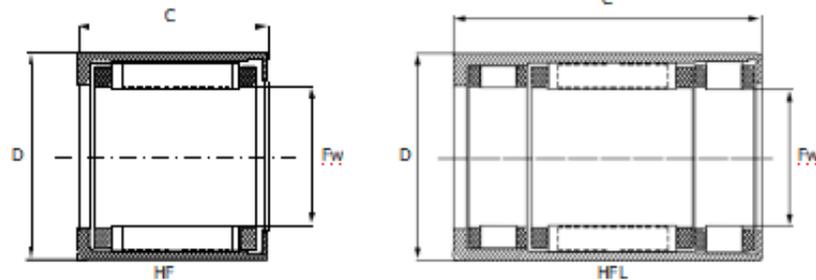
Shaft Diameter	Bearing Designation	Mass Approx	Boundary Dimensions			Basic Load Rating		Limiting Speed
	Current Code		Fw	D	C	Dynamic	Static	Oil
mm		g	mm			N		rpm
16	HK1614 RS	15.1	16	22	14	7200	9200	10000
	HK1616 2RS	15.1	16	22	16	7200	9200	10000
	BK1614 RS	15.3	16	22	14	7200	9200	10000
	HK1620 2RS	16.8	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	HK201 2RS	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	8310	10000	9000
	HK2214 RS	18.3	22	28	14	9000	12400	7800
	HK2216 2RS	20.3	22	218	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

Shaft Diameter	Bearing Designation	Mass Approx	Boundary Dimensions			Basic Load Rating		Limiting Speed
	Current Code		Fw	D	C	Dynamic	Static	Oil
mm			g	mm			N	
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	24	30000	61000	3200
	HK5024 2RS	84	50	58	24	30000	61000	3200

⊙ The drawn cup needle roller clutch is the overriding clutch (one-way clutch), composed of the outer ring punched with the high-quality steel sheet, plastic retainer, spring and needles, used for transferring one-way torque.

⊙ The drawn cup needle roller clutch has not the load carrying feature by itself. However it can play the action in combination with Model HK and BK drawn cup needle roller bearing.

⊙ The drawn cup needle roller clutch is the block bearing either withstanding the radial load or transferring torque.



Shaft Diameter mm	Bearing Designation	Mass Approx g	Boundary Dimensions			Basic Load Rating		Limiting Speed		Trans- mission torque N.m
	Current Code		Fw	D	C	Dynamic	Static	Grease	Oil	
			mm			N		rpm		
4	HF0406	1	4	8	6			34000	14000	0.34
6	HF0612	3	6	10	12			23000	13000	1.76
8	HF0812	3.5	8	12	12			17000	12000	3.15
10	HF1012	4	10	14	12			14000	11000	5.3
12	HF1216	11.6	12	18	16			11000	8000	12.2
14	HF1416	13	14	20	16			9500	8000	17.3
16	HF1616	14	16	22	16			8500	7500	20.5
18	HF1816	15.5	18	24	16			7500	7500	24.1
20	HF2016	17	20	26	16			7000	6500	28.1
25	HF2520	30.9	25	32	20			5500	5500	66
30	HF3020	36	30	37	20			4500	4500	90
35	HF3520	40	35	42	20			3900	3900	121
4	HFL0408	1.6	4	8	8			34000	14000	0.34
6	HFL0615	4	6	10	15	4050	4650	23000	13000	1.76
8	HFL0822	6.3	8	12	22	4300	4650	17000	12000	3.15
10	HFL1022	7.4	10	14	22	6300	6500	14000	11000	5.3
12	HFL1226	18	12	18	26	7100	7700	11000	8000	12.2
14	HFL1426	20.3	14	20	26	7300	8400	9500	8000	17.3
16	HFL1626	22	16	22	26	8300	10300	8500	7500	17.3
18	HFL1826	24.4	18	24	26	8200	10400	7500	7500	20.5
20	HFL2026	27	20	26	26	10900	14100	7000	6500	28.5
25	HFL2530	44	25	32	30	12600	17600	5500	5500	66
30	HFL3030	51	30	37	30	13000	19300	4500	4500	90
35	HFL3530	58	35	42	30			3900	3900	121

Bearing Designation		Mass Approx	Boundary Dimensions						Limiting Speed	Trans- mission torque
			Fw		D		C			
		g	inch	mm	inch	mm	inch	mm	rpm	N.m
—	R2-02	2	1/8	3.18	9/32	7.14	0.250	6.35	50000	2.86
—	FC-4	1	0.16	4	0.31	8	0.236	6	50000	2.78
FCS-6	—	3.5	0.24	6	0.39	10	0.472	12	39300	18.6
—	RC-040708	3.5	1/4	6.35	7/16	11.11	0.500	12.70	38000	17.2
FCL-8-K	—	4.7	0.31	8	0.47	12	0.472	12	28700	28.7
FC-8	—	4	0.31	8	0.55	14	0.472	12	30500	35.8
RC-061008-FS*	RC-061008	4.7	3/8	9.52	5/8	15.88	0.500	12.70	25300	45.4
FCL-10-K	—	4	0.39	10	0.55	14	0.472	12	22700	39.1
FC-10	—	4.8	0.39	10	0.63	16	0.472	12	23700	50.4
FC-12	—	11	0.47	12	0.71	18	0.630	16	19300	118
RC-081208-FS*	RC-081208	9.2	1/2	12.70	3/4	19.05	0.500	12.70	18700	73.6
RC-101410-FS*	RC-101410	14.5	5/8	15.88	7/8	22.22	0.625	15.88	14700	143
FC-16	—	14	0.63	16	0.87	22	0.630	16	14000	182
RS-121610-FS*	—	17	3/4	19.05	1	25.40	0.625	15.88	11300	196
FC-20	RC-162110	17	0.79	20	1.02	26	0.630	16	10700	274
FC-25	—	30	0.98	25	1.26	32	0.787	20	8570	605
RC-162110-FS*	—	25.4	1	25.40	1 <sup>3</sup> / <sub>16</sub>	33.34	0.625	15.88	8670	412
FC-30	—	36	1.18	30	1.46	37	0.787	20	7330	845
FCS-35	—	40	1.38	35	1.65	42	0.787	20	6130	913

Bearing Designation		Mass Approx	Boundary Dimensions						Basic Load		Limiting Speed	Trans- mission torque
			Fw		D		C		Ratig (N)			
		g	inch	mm	inch	mm	inch	mm	Dynamic	Static	rpm	N.m
FCBL-8-K	—		0.31	8	0.47	12	0.866	22	532		28700	29.0
FCB-8	—	10	0.31	8	0.55	14	0.787	20	541		30500	35.8
RCB-061014-FS*	RCB-061014	12	3/8	9.52	5/8	15.88	0.875	22.22	848		25300	45.4
FCB-10	—	15	0.39	10	0.63	16	0.787	20	628		23700	50.4
FCB-12	—	18	0.47	12	0.71	18	1.024	26	882		19300	118
RCB-081214-FS*	RCB-081214	16	1/2	12.7	3/4	19.05	0.875	22.22	1020		18700	73.6
RCB-101416-FS*	RCB-101416	21.3	5/8	15.88	7/8	22.22	1.000	25.40	1140		14700	143
FCB-16	—	22	0.63	16	0.87	22	1.024	26	951		14000	182
RCB-121616-FS*	RCB-11616	26.5	3/4	19.05	1	25.40	1.000	25.4	1270		11300	196

FCB-20	—	27	0.79	20	1.02	26	1.024	26	1180		10700	274
FCB-25	—	44	0.99	25	1.26	32	1.181	30	1580		8670	605
RCB-162117- FS*	RCB-162117	44.8	1	25.40	<sup>15</sup> /16	33.34	1.063	27	2240		8670	412
FCB-30	—	51	1.18	30	1.46	37	1.181	30	1620		7300	845

⊙ The needle roller and cage assembly is an independent bearing element. The each of needle roller is guided and caged accurately by the cage. It has the highest load carrying capacity and the high rigid design in the smallest structure and space. The wide distance between two guiding surfaces of cage ensures the accurate guide of needle roller and cage assembly.

⊙ Needle roller and cage assembly is suitable for the place where the shaft and housing bore are acted as the raceway. Under the geographic accuracy shaft and housing bore raceway, the highest rotation precision can be obtained.

⊙ The working clearance in bearing location is dependent on the tolerance of inner

and outer raceways, needle roller difference and working temperature.

⊙ As for Model K, K D radial needle and retainer assembly, this kind of bearing only has a group of radial needle and retainer assembly. With small outside diameter size, it is suitable for the parts, where the radial sizes are specially limited, used for bearing the radial load.

Model K ZW, K ZWD radial needle and retainer assembly is the double row radial needle and retainer assembly.

⊙ As for this kind of bearing, since it has not collar, the surface of journal and the surface of hole at the housing are directly acted as rolling surface with surface hardness HRC 60 and surface roughness Ra no more than 0.63 μm.

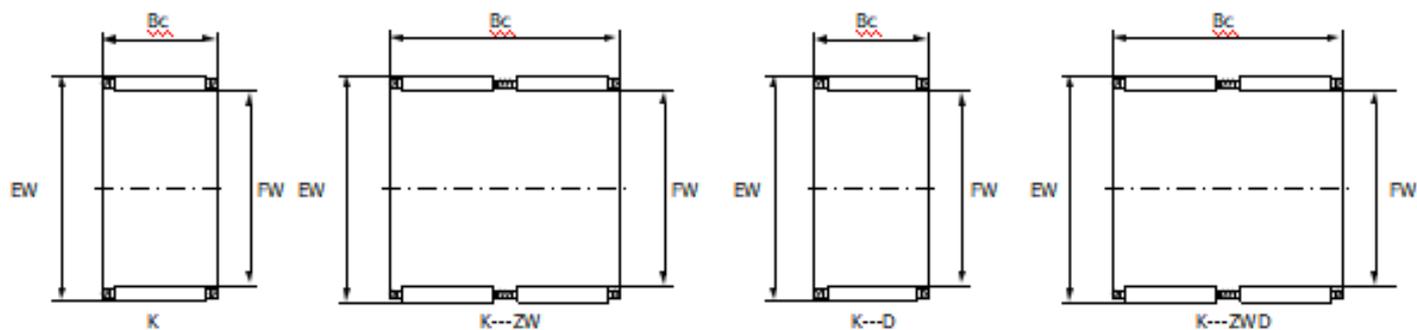
⊙ In order to satisfy the requirement of main machine, this kind of bearing can be made in split bearing, convenient for mounting. Model K D represents as the single row split bearing

roller and cage assembly

⊙ (1-2) K...ZW double-row radial needle roller and cage assembly

⊙ (1-3) K... D partial single-row radial needle roller and cage assembly

⊙ (1-4) K...ZWD double-row radial needle roller and cage assembly



Shaft Diameter	Bearing Designation		Mass Approx	Boundary Dimensions			Basic Load Rating		Limiting Speed
	Current Code	Original Code		Fw	Ew	Bc	Dynamic	Static	
mm			g	mm			N		rpm
3	K3×5×7TN		0.3	3	5	7	1.54	1.29	50000
	K3×5×9TN		0.4	3	5	9	1.71	1.48	
	K3×6×7TN		0.4	3	6	7	1.43	0.97	47000
4	K4×7×7TN		0.5	4	7	7	2.33	1.84	43000
	K4×7×10TN		0.7	4	7	10	2.35	1.92	39000
5	K5×8×8TN	29241/5	0.7	5	8	8	2300	1880	37000
	K5×8×10TN	39241/5	0.9	5	8	10	2800	2450	37000
6	K6×9×8TN	29241/6	0.8	6	9	8	25600	2240	35000
	K6×9×10TN	39241/6	1	6	9	10	3300	3100	35000
	K6×10×13TN	19241/6	1.3	6	10	13	3500	2800	33000
7	K7×10×8TN	29241/7	0.9	7	10	8	2750	2550	32000
	K7×10×10TN	39241/7	1.1	7	10	10	3350	3400	32000
8	K8×11×8TN	29241/8	1.1	8	11	8	3000	2900	30000
	K8×11×10TN	39241/8	1.7	8	11	10	3830	3950	30000
	K8×11×13TN	49241/8	1.8	8	11	13	5000	5700	30000
	K8×12×10TN	29242/8	1.3	8	12	10	4900	4600	30000
9	K9×12×10TN	39241/9	1.5	9	12	10	4200	4700	30000
	K9×12×13TN	19241/9	1.9	9	12	13	5500	6700	30000
10	K10×13×10TN	39241/10	1.6	10	13	10	4500	5250	27000
	K10×13×13TN	39241/10	2.1	10	13	13	6000	7600	27000
	K10×13×16TN		2.2	10	13	16	6300	7800	27000
	K10×14×10TN	29242/10	2.9	10	14	10	7000	7900	27000
	K10×14×13TN	3922/10	4.3	10	14	13	8000	9100	26000
	K10×16×12TN	19244/10	3.7	10	16	12	7000	9300	27000
12	K12×15×9TN		2.7	12	15	9	4120	5210	25000
	K12×15×10TN	39241/12	1.9	12	15	10	4320	5730	25000
	K12×15×13TN	49241/12	2.4	12	15	13	6000	8100	25000
	K12×16×8TN	19242/12	2.9	12	16	8	1200	4700	25000

	K12×16×10TN	29242/12	3.4	12	16	10	6000	6900	25000
	K12×16×13TN	39242/12	3.8	12	16	13	7900	9200	25000
	K12×17×13TN	59242/12	4.4	12	17	13	9300	10000	24000
	K12×N8×12TN	19244/12	5	12	18	12	9800	8000	24000
	K12×15×20TN	K12×15×20TN	3.8	12	15	20	8200	12000	25000
14	K14×N7×10		4	14	17	10	5100	6800	23000
	K14×17×17		6.8	14	17	17	9300	14000	23000
	K14×N8×10	29242/14	4.8	14	18	10	6800	8300	23000
	K14×N8×13	39242/14	6.3	14	18	13	8100	9800	23000
	K14×18×14		6.8	14	18	14	9200	12000	23000
	K14×N8×15	49242/14	7.3	14	18	15	10000	13000	23000

Shaft Diameter	Bearing Designation		Mass Approx	Boundary Dimensions			Basic Load Rating		Limiting Speed Oil
	Current Code	Original Code		Fw	Ew	Bc	Dynamic	Static	
mm			g	mm			N		rpm
20	K20×24×N0	29241/20	6.5	20	24	10	8700	12100	19000
	K20×24×12		8	20	24	12	9600	13800	19000
	K20×24×13	39241/20	8.9	20	24	13	9600	13800	19000
	K20×24×N7	59241/20	11.2	20	24	17	12400	20000	19000
	K20×26×12	19243/20	13.2	20	26	12	13100	15700	19000
	K20×26×16	K9249/20	17.5	20	26	16	18000	25000	18500
	K20×26×17	39243/20	18.2	20	26	17	18700	25500	19000
	K20×26×20	49243/20	22	20	26	20	20600	28500	19000
	K20×28×20	19245/20	26.8	20	28	20	23400	28000	18000
	K20×28×25	29245/20	36.2	20	28	25	30000	28500	18000
21	K21×25×13		9	21	25	13	9600	14500	19000
	K21×25×17		12	21	25	17	12800	21000	19000
22	K22×26×10	29241/22	7.1	22	26	10	8700	12900	18000
	K22×26×13	39241/22	9.4	22	26	13	10000	15400	18000
	K22×26×17	59241/22	12.1	22	26	17	13100	22100	18000
	K22×27×13	29242/22	10.8	22	27	13	14000	23000	18000
	K22×28×17	39243/22	19.7	22	28	17	19000	26500	18000
	K22×28×23	59243/22	26	22	28	23	20000	27000	19000
	K22×29×16	19244/22	22.2	22	29	16	19500	25000	17000
	K22×30×15 TN		14.4	22	30	15	19600	22900	17000
	K22×30×20	19245/22	28	22	30	20	21000	23500	18900
	K22×32×24		43.4	22	32	24	33500	39500	16000
23	K23×35×16 TN		30	23	35	16	24000	23400	15000
24	K24×28×10		8.1	24	28	10	9400	14300	17000

	K24×28×13		10.1	24	28	13	10500	17000	17000
	K24×28×17	9243/24	13.2	24	28	17	14000	24500	17000
	K24×29×13		13.5	24	29	13	13100	19100	16000
	K24×30×17		21.5	24	30	17	19000	27000	16000
	K24×30×31		39.1	24	30	31	27000	43000	16000
25	K25×29×10	29241/25	8.3	25	29	10	9700	14900	16000
	K25×29×13	39241/25	10.4	25	29	13	10800	17900	16000
	K25×29×17	59241/25	13.7	25	29	17	14500	25500	16000
	K25×30×13	29242/25	12.9	25	30	13	14100	21300	16000
	K25×30×20	59242/25	20.5	25	30	20	21100	28000	16000
	K25×30×25		21	25	30	25	21700	40400	15000
	K25×30×26	52.436	21.6	25	30	26	20100	26500	15000
	K25×31×17	39243/25	21.8	25	31	17	19000	28000	16000
	K25×31×21	39243/25	26.2	25	31	21	24100	37500	16000

Shaft Diameter	Bearing Designation		Mass	Boundary Dimensions			Basic Load Rating		Limiting Speed
	Current Code	Original Code		Approx	Fw	Ew	Bc	Dynamic	
mm			g	mm			N		rpm
14	K14×18×17	59242/14	8.1	14	18	17	10500	13900	23000
	K14×20×12	19243/14	8.6	14	20	12	9900	10500	22000
15	K15×18×14		5.3	15	18	14	7500	11000	23000
	K15×18×17		6.4	15	18	17	9600	15900	23000
	K15×19×10	29242/15	5.1	15	19	10	7200	9000	22000
	K15×19×13	39241/15	7	15	19	13	8300	9800	22000
	K15×19×17	59241/15	8.8	15	19	17	10300	15000	22000
	K15×19×24 ZW	79241/15	10.5	15	19	24	12800	20100	22000
	K15×22×13	29242/15	8.9	15	22	13	9700	11000	22000
	K15×22×12	19243/15	10	15	22	12	10000	13000	22000
	K15×21×15	39242/15	13	15	21	15	13800	16000	22000
K15×21×21		18.2	15	21	21	18000	24000	22000	
16	K16×20×10	29241/16	5.7	16	20	10	7600	9700	22000
	K16×20×13	39241/16	7.1	16	20	13	8700	11300	22000
	K16×20×17	59241/16	9.2	16	20	17	11200	16300	22000
	K16×21×10	19242/16	3.7	16	21	10	9000	12000	22000
	K16×22×12	19243/16	10.4	16	22	12	11000	12000	21000
	K16×22×13		11.9	16	22	13	12000	13400	21000
	K16×22×16		13.7	16	22	16	14300	17000	21000
	K16×22×20	49243/16	16.7	16	22	20	18000	22300	21000
	K16×23×14	19244/16	20	16	23	14	19000	21000	19000
K16×24×20	19245/16	24.9	16	24	20	21100	23000	20000	
17	K17×21×10	29241/17	5.6	17	21	10	7900	10100	21000
	K17×21×13	39241/17	7.5	17	21	13	10000	14100	21000

	K17×21×17	59241/17	9.5	17	21	17	12000	17400	21000
	K17×23×14	29243/17	11.5	17	23	14	11000	15000	21000
18	K18×22×10	29241/18	6.1	18	22	10	8200	9900	20000
	K18×22×13	39241/18	7.7	18	22	13	9000	12100	20000
	K18×22×17	59241/18	10.8	18	22	17	11900	17600	20000
	K18×24×12	19243/18	11.6	18	24	12	11200	12900	20000
	K18×24×13		12.6	18	24	13	12900	14900	20000
	K18×24×13.5		13	18	24	13.5	12900	14900	20000
	K18×24×20	49243/18	19	18	24	20	20000	26500	20000
	K18×25×14		14.9	18	25	14	16500	18800	20000
	K18×25×22		24.3	18	25	22	22900	28400	20000
	K18×26×14		19	18	26	14	18000	20000	18000
	K18×28×16	19244/18	24	18	28	16	19000	18400	19000
19	K19×23×13		8.2	19	23	13	9300	13000	20000
	K19×23×17		11.1	19	23	17	12000	18600	20000

Shaft Diameter	Bearing Designation		Mass Approx	Boundary Dimensions			Basic Load Rating		Limiting Speed Oil
	Current Code	Original Code		Fw	Ew	Bc	Dynamic	Static	
mm			g	mm			N		rpm
25	K25×32×16	19244/25	24.5	25	32	16	20500	27500	15000
	K25×33×20	19245/25	32	25	33	20	28000	37500	15000
	K25×33×24	29245/25	38.7	25	33	24	33900	46500	15000
	K25×34×18		32	25	34	18	48000	67000	15000
	K25×35×30	39245/25	65.5	25	35	30	46500	61500	14000
	K25×30×26 ZW		27	25	30	26	21000	35000	14000
26	K26×30×10		9	26	30	10	9500	15500	16000
	K26×30×13		11.4	26	30	13	11100	18700	16000
	K26×30×17		15	26	30	17	14700	27000	16000
	K26×31×13		9.9	26	31	13	12400	18400	15000
	K26×30×22		12.3	26	30	22	15200	28000	16000
27	K27×32×17		29	27	32	27	16000	34000	17000
28	K28×32×16.5		16	28	32	16.5	15000	32400	14000
	K28×32×17	9242/28	18.2	28	32	17	15000	32400	14000
	K28×33×13	29241/25	15.2	28	33	13	14800	23600	14000
	K28×33×17	49241/28	19.5	28	33	17	19100	33000	14000
	K28×33×27 TN	79241/28	19	28	33	27	22800	40500	14000
	K28×34×17	39242/28	24.2	28	34	17	21300	35000	14000
	K28×35×16	19243/28	26	28	35	16	21000	29000	14000
	K28×35×18		31	28	35	18	23500	33500	14000
	K28×35×20	29243/28	35	28	35	20	24000	34000	14000
	K28×35×27		47	28	35	27	34500	54500	14000
	K28×36×16		40	28	36	16	34000	47000	11000

	K28×40×18		50	28	40	18	33000	36500	12000
	K28×40×25		71	28	40	25	45000	54500	12000
30	K30×33×10			30	33	10			
	K30×34×13		14.6	30	34	13	11800	21200	13000
	K30×35×13	29241/30	16.3	30	35	13	15100	25000	13000
	K30×35×17	49241/30	21.3	30	35	17	19100	33500	13000
	K30×35×26			30	35	26			
	K30×35×27	19241/30	33.3	30	35	27	30000	58500	13000
	K30×37×16	19243/30	26.4	30	37	16	22500	33000	13000
	K30×38×25	29244/30	43	30	38	25	16000	390000	13000
	K30×39×21			30	39	21			
	K30×40×18		44	30	40	18	31500	39500	12000
	K30×40×27	92401/30T	60	30	40	27			
	K30×40×30	49243/30	78	30	40	30	48500	68500	13000
	K30×35×26		32	30	35	26	23500	43500	12000
K30×42×44.1			30	42	44.1				

Shaft Diameter	Bearing Designation		Mass Approx	Boundary Dimensions			Basic Load Rating		Limiting Speed
	Current Code	Original Code		Fw	Ew	Bc	Dynamic	Static	
mm			g	mm			N		rpm
32	K32×37×13	29241/32	18.3	32	37	13	15000	25000	12000
	K32×37×17	49241/32	22.4	32	37	17	19400	35000	12000
	K32×37×27	19241/32	36.7	32	37	27	29500	59500	12000
	K32×37×28 TN		22.3	32	37	28	23100	43000	12000
	K32×38×16		25	32	38	16	21000	34000	12000
	K32×38×20	49242/32	31	32	38	20	26000	44500	12000
	K32×38×26 TN		25.2	32	38	26	27000	46500	12000
	K32×39×16	19243/32	36.7	32	39	16	23500	35000	12000
	K32×39×18		37.2	32	39	18	26000	40500	12000
	K32×40×20	19244/32	48	32	40	20	37000	40500	12000
	K32×40×36		73	32	40	36	53500	91500	12000
	K32×46×32		119	32	46	32	65500	82500	11000
K32×40×42 TN		771	32	40	42	49500	83500	12000	
35	K35×40×13	29241/35	188	35	40	13	15800	27500	11000
	K35×40×17	49241/35	25.3	35	40	17	20300	38000	11000
	K35×40×25	29244/35	31	35	40	25	29000	59500	11000
	K35×40×27 TN	19241/35	23.4	35	40	27	24500	48000	11000
	K35×40×27	79241/35	28	35	40	27	27800	62100	11000
	K35×40×30	39244/35	43	35	40	30	25000	49500	11000
	K35×42×16	19243/35	34	35	42	16	23900	37000	11000
	K35×42×18		39.2	35	42	18	27000	42500	11000
	K35×42×30	49243/35	62.4	35	42	30	38500	67500	11000

	K35×43×18		38	35	43	18	28000	41500	11000
	K35×45×20		55.5	35	45	20	36500	49500	10000
	K35×45×30	29243/35	80	35	45	30	52500	78500	10000
	K35×45×49		120	35	45	49	81500	13400	10000
	K35×40×30 ZW		48	35	40	30	31500	65500	11000
	K35×42×20 ZW	29243/35	41	35	42	20	29500	48500	11000
36	K36×41×30		52	36	41	30	23000	43000	11000
	K36×42×16		50	36	42	16	24000	42000	11000
37	K37×42×17		25.8	37	42	17	21900	42500	10000
	K37×42×27		40.7	37	42	27	31500	67500	10000
	K37×45×26		60.5	37	45	26	43500	73500	10000
38	K38×43×17	49241/38	26.9	38	43	17	20000	38000	10000
	K38×43×27	49241/38	43.2	38	43	27	31000	67500	10000
	K38×46×20	19244/38	46	38	46	20	35000	56500	10000
	K38×46×32		72.7	38	46	32	54500	98500	10000
39	K39×44×24		38	39	44	24	28000	58500	10000
	K39×44×26 ZW		29.5	39	44	26	27000	55500	10000

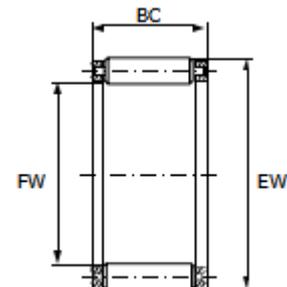
Shaft Diameter	Bearing Designation		Mass Approx	Boundary Dimensions			Basic Load Rating		Limiting Speed
	Current Code	Original Code		Fw	Ew	Bc	Dynamic	Static	Oil
mm			g	mm			N		rpm
48	K48×54×19	39242/48	44	48	54	19	30000	60500	7500
	K48×54×25	59242/48	55	48	54	25	31000	91000	7500
50	K50×55×13.5		31	50	55	13.5	17500	36000	7500
	K50×55×17	49241/50	35	50	55	17	21400	46500	7500
	K50×55×20	59241/50	39.4	50	55	20	26000	59500	7500
	K50×55×30	9243/50	59.4	50	55	30	38500	96500	7500
	K50×57×18		53.4	50	57	18	33000	62500	7000
	K50×58×20	19244/50	64.9	50	58	20	35000	61500	7000
	K50×58×25	29244/50	81	50	58	25	43500	80500	7000
52	K52×57×12		24	52	57	12	17500	36000	7000
55	K55×60×20		43.4	55	60	20	28000	65500	6500
	K55×60×27		60.5	55	60	27	37500	96500	6500
	K55×60×30		68.6	55	60	30	40500	10300	6500
	K55×61×20		56	55	61	20	41000	11000	6500
	K55×62×18		58.4	55	62	18	35000	69500	6500
	K55×63×15		53	55	63	15	245000	40500	6500
	K55×63×20	19243/55	73.3	55	63	20	39500	73500	6500
	K55×63×25	29243/55	88	55	63	25	49500	99500	6500
	K55×63×32		117	55	63	32	61500	129500	6500

	K55×60×40 ZW		96.5	55	60	40	48000	132000	6500
56	K56×61×20		45	56	61	20	27000	64500	6500
58	K58×63×17		42	58	63	17	21500	63500	6000
	K58×64×19		53	58	64	19	24500	77500	6000
	K58×65×18		52	58	65	18	34500	69500	6000
	K58×65×38 ZW		106	58	65	38	48500	106500	6000
60	K60×65×20	49241/60	50.5	60	65	20	29000	71500	6000
	K60×65×30	69241/60	71.2	60	65	30	42000	115500	6000
	K60×68×20	19243/60	79	60	68	20	43000	84500	5500
	K60×68×23		94	60	68	23	49000	100500	5500
	K60×68×25	29243/60	97	60	68	25	52500	110500	5500
	K60×68×27		98	60	68	27	59000	120500	6000
	K60×75×42		240	60	75	42	11300	19200	5500
	K60×66×33 ZW		104	60	66	33	45500	111500	6000
	K60×66×40 ZW		116	60	66	40	57500	150500	5500
	K60×68×30 ZW		136	60	68	30	44000	87500	5500
	K60×68×34 ZW		140	60	68	34	47500	95500	5500
62	K62×70×40 ZW		147.5	62	70	40	65500	145500	5500
63	K63×70×21		75	63	70	21	45000	100500	5500
64	K47×70×16		53	64	70	16	27500	59500	5500

Shaft Diameter	Bearing Designation		Mass	Boundary Dimensions			Basic Load Rating		Limiting Speed
	Current Code	Original Code	Approx	Fw	Ew	Bc	Dynamic	Static	Oil
mm			g	mm			N		rpm
40	K40×44×13		20	40	44	13	13500	28000	10000
	K40×45×13	29241/40	21.5	40	45	13	17100	32000	10000
	K40×45×17	49241/40	27.4	40	45	17	20900	41000	10000
	K40×45×21		36.5	40	45	21	24400	49500	10000
	K40×45×27	19241/40	46	40	45	27	32500	72500	10000
	K40×46×17	39242/40	30	40	46	17	24500	44500	9000
	K40×47×18		45.2	40	47	18	29000	49500	9000
	K40×47×20	29243/40	42	40	47	20	32000	56500	9000
	K40×48×20	19244/40	57.7	40	48	20	35500	58500	9000
K40×45×30 ZW		48	40	45	30	26000	53500	9000	
42	K42×47×13	29241/42	22.5	42	47	13	17300	33000	9000
	K42×47×17	49241/42	31.1	42	47	17	21100	42500	9000
	K42×47×25 TN		25.4	42	47	25	27000	57500	9000
	K42×47×27	79241/42	46.6	42	47	27	33000	74500	9000
	K42×48×35	79242/42	60	42	48	35	35000	76000	9000
	K42×50×18		53	42	50	18	31000	49500	9000
	K42×50×20	19244/42	54	42	50	20	34500	56500	9000

	K42×47×30 ZW		54	42	47	30	31000	75500	9000
43	K43×48×17		29.3	43	48	17	21000	42500	9000
	K43×48×27		45.7	43	48	27	33000	74500	9000
	K43×50×18	9249/43	48.5	43	50	18	30500	53500	8000
45	K45×49×19		27	45	49	19	17500	40000	8000
	K45×50×17	49241/45	25.5	45	50	17	22000	45000	8000
	K45×50×27	19241/45	50	45	50	27	34000	79500	8000
	K45×50×32 TN		45	45	50	32	38000	90500	8000
	K45×52×18		51	45	52	18	31000	56500	8000
	K45×52×21 TN		32.9	45	52	21	39500	57500	8000
	K45×53×20	19244/45	62.2	45	53	20	38500	66500	8000
	K45×53×21		65	45	53	21	38000	66500	8000
	K45×53×22		68.4	45	53	22	42000	66500	8000
	K45×53×28		78	45	53	28	51500	97500	8000
	K45×59×18 TN		60.5	45	59	18	43500	53500	7000
	K45×59×32		145.5	45	59	32	72500	101500	7000
	K45×59×36		195	45	59	36	75500	108500	7000
	K45×51×36 ZW		85	45	51	36	44500	98500	7000
47	K47×52×17		32	47	52	17	22800	48500	8000
	K47×52×27		50.7	47	52	27	34500	82500	8000
	K47×53×25		53	47	53	25	38000	81500	8000
	K47×55×28		62.4	47	55	28	52500	99500	7500

⊙ This kind of bearing is suitable for the parts in which the radial size is specially limited. Since the bearing has not collar, the surface of shaft journal and the surface of housing inner bore are directly acted as rolling face. It is requested that the hardness, surface roughness and size accuracy of shaft journal surface and housing inner bore surface fitted with it be adaptable to the collar of bearing. Another pivot cylinder is modified as flat cylinder with M-type cage structure. Its speed performance is greatly improved.



KNL 00×00×0064000 (640000)

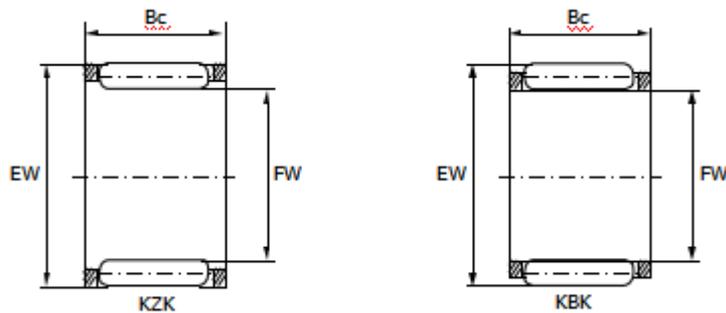
Shaft Diameter	Bearing Designation		Mass Approx	Boundary Dimensions			Basic Load Rating	
	Current Code	Original Code		Fw	Ew	Bc	Dynamic	Static
mm			g	mm			N	
19.051	KNL19.051×28.588×36.75	64903	70	19.051	28.588	36.75		
19.051	KNL19.051×28.588×43.25	64904	80	19.051	28.588	43.25		
20	KNL20×30.2×18	64704	40	20	30.2	18		
20.612	KNL20.612×33.325×35	864904	96	20.612	33.325	35		
20.638	KNL20.638×33.338×36.75	64705	92	20.638	33.338	36.75		
25	KNL25×38×24.7	64805	82	25	38	24.7		
25.4	KNL25.4×41.2×60.4	64905	265	25.4	41.2	60.4		
27.71	KNL27.71×42.825×44.1	64906	183	27.71	42.825	44.1		
28.575	KNL28.575×41.275×34.925	64806	122	28.575	41.275	34.925		
28.578	KNL28.575×41.275×40	94626	155	28.578	41.275	40		
29.975	KNL29.975×42×44.1	64706	160	29.975	42	44.1		
29.975	KNL29.975×42×31	9148/30	81	29.975	42	31		
31.75	KNL31.75×44.45×31.75	864807	115.8	31.75	44.45	31.75		
31.9	KNL31.9×41.46×32	31.9×41.46×32	95	31.9	41.46	32		
32	KNL32×50×45	30643/32	272	32	50	45		
32	KNL32×52×49	64907	329	32	52	49		
37.96	KNL37.96×53.9×36	37.96×53.9×36	208.3	37.96	53.9	36		
40	KNL40×60×30	10643/40	248	40	60	30		
52.412	KNL52.412×71.425×42.3	864911	441	52.412	71.425	42.3		
65	KNL65×89×58.9	864913	943	65	89	58.9		
74	KNL74×106×57.9	864915	1563	74	106	57.9		

⊙The rod-use needle roller and cage assembly is mainly used for engine, compressor and other crankguide.

⊙The designation of the rod-use needle roller and cage assembly is composed of letter and number. The letter KZK represents crank pine assembly and KBK represents piston pin assembly.

⊙The needle roller and cage assembly for KZK crank pin adapts M-type cage with reliable performance. It has special requirement. The surface of cage can be silver-plated or copper-coated.

⊙The needle roller and cage assembly for KBK piston pin is different from KZK (external guide for crank pin). It is internally guided on the piston pin), thus increasing the length of needle.



Shaft Diameter mm	Bearing Designation		Mass Approx g	Boundary Dimensions			Basic Load Rating	
	Current Code	Original Code		Fw	Ew	Bc	Dynamic	Static
				mm			N	
8	KZK8×12×8	19242/8	1.9	8	12	8	4700	4580
10	KZK10×14×10	29242/10	3.3	10	14	10	5000	5160
12	KZK12×15×13	49241/12	3.6	12	15	13	5300	7400
	KZK12×16×10	29242/12	3.5	12	16	10	6100	6900
	KZK12×16×11		3.7	12	16	11	6200	7100
	KZK12×17×10	19243/12	5	12	17	10	7020	7020
	KZK12×18×10	19242/12	7.8	12	18	10	7400	7200
14	KZK14×18×10	29241/14	4	14	18	10	7100	8500
	KZK14×19×10	19242/14	5.5	14	19	10	7300	7600
	KZK14×19×10		7.5	14	19	12	7460	7950
	KZK14.4×20.4×10		6.5	14.4	20.4	10	8100	7800
15	KZK15×19×9	29241/15	5	15	19	9	6800	7100
	KZK15×19×10	19242/15	6	15	19	10	7200	8400
	KZK15×20×10		7.5	15	20	10	7800	9100
	KZK15×21×10		8.5	15	21	10	8400	10500
	KZK15×21×11		9.5	15	21	11	8500	10700
	KZK15.2×22.2×12		11.5	15.2	22.2	12	8600	11100
16	KZK16×20×10	29241/16	5.8	16	20	10	8200	9200
	KZK16×20×24	79241/16	6.3	16	20	24	8700	9400
	KZK16×21×10	19242/16	5.8	16	21	10	8800	9800
	KZK16×22×12	19243/16	9.5	16	22	12	11000	11900
	KZK16×22×14		11	16	22	14	13200	13930

Shaft Diameter	Bearing Designation		Mass Approx	Boundary Dimensions			Basic Load Rating	
	Current Code	Original Code		Fw	Ew	Bc	Dynamic	Static
mm			g	mm			N	
17	KZK17×21×10	29241/17	6.7	17	21	10	7600	9000
	KZK17×23×11		9.5	17	23	11	8100	11300
18	KZK18×22×10	29241/18	6.9	18	22	10	7600	9800
	KZK18×22×24		7.2	18	22	24	10100	17200
	KZK18×24×11.6	19243/18	10	18	24	11.6	11600	13100
	KZK18×24×12	19243/18	10	18	24	12	11600	13100
	KZK18×24×13.3		12.4	18	24	13.3	9000	10700
	KZK18×24×13.5		12.4	18	24	13.5	9000	10700
	KZK18×24×15	29243/18	14	18	24	15	13200	15500
19	KZK19×25×16	19244/19K	13.9	19	25	16	12100	15500
	KZK19×28×14		20	19	28	14	12100	15000
20	KZK20×25×16		12	20	25	16	9900	12300
	KZK20×26×12	19243/20	9.6	20	26	12	10100	12500
	KZK20×26×14		12	20	26	14	12600	16700
	KZK20×26×17	9246/20	17	20	26	17	12700	17600
22	KZK22×28×13		15	22	28	13	11900	16500
	KZK22×28×14		16	22	28	14	12600	16800
	KZK22×28×15	29242/22	16.7	22	28	15	13500	18500
	KZK22×28×16	29243/22K	18	22	28	16	14400	20100
	KZK22×29×15		15.2	22	29	15	17800	21800
	KZK22×29×16	19244/32	19	22	29	16	17800	21800
	KZK22×30×16	SZ-432	25.7	22	30	16	18700	22300
23	KZK23×29×13		12	23	29	13	10000	11300
	KZK23×30×14		19.4	23	30	14	9350	10100
	KZK23×30×16		22	23	30	16	9780	11800
23.1	KZK23.1×28.1×14	29242/23.1	12.9	23.1	28.1	14	10600	15800
24	KZK24×30×15		17	24	30	15	11200	13700
	KZK24×30×16		18	24	30	16	11200	13700
25	KZK25×30×28	69245/25	24	25	30	28	13300	15200
	KZK25×31×12	19243/25K	16	25	31	12	8700	8800
	KZK25×31×17	39243/25	23	25	31	17	9200	9750
	KZK25×31×20	49243/25	26	25	31	20	9700	10600
	KZK25×32×16	19244/25	22.7	25	32	16	18200	23100
25.1	KZK25.1×30.1×14		14.1	25.1	30.1	14	13700	19000
26	KZK26×34×16	9248/26	25	26	34	16	11700	17500

Shaft Diameter	Bearing Designation		Mass Approx	Boundary Dimensions			Basic Load Rating	
	Current Code	Original Code		Fw	Ew	Bc	Dynamic	Static
mm			g	mm			N	
28	KZK28×33×14		15.7	28	33	14	13200	21900
	KZK28×34×14		20	28	34	14	16500	20700
	KZK28×35×15		25	28	35	15	18000	22000
	KZK28×35×16	19243/28	27	28	35	16	18900	23000
	KZK28×36×16		29.1	28	36	16	19500	27000
	KZK28×38×13.6		40	28	38	13.6	17300	20300
30	KZK30×36×16		28.5	30	36	16	18900	22800
	KZK30×37×16	19243/30	29	30	37	16	21500	30500
	KZK30×38×16		34.4	30	38	16	22700	32600
	KZK30×38×18		38.8	30	38	18	26200	39600
32	KZK32×40×22	19244/32K	50	32	40	22	27800	39300
	KZK32×42×20		54	32	42	20	29000	41000
35	KZK35×42×20	29243/35	10	35	42	20	26000	40200
38	KZK38×46×20	19244/38	50	38	46	20	31100	43000
40	KZK40×48×17		50	40	48	17	29000	39000
	KZK40×48×20	19244/40	54	40	48	20	32500	51000
8	KBK8×11×10	39241/8	1.85	8	11	10	3500	4000
	KBK8×12×10	29242/8	2	8	12	10	3700	4100
9	KBK9×12×11.5		2.4	9	12	11.5	4200	4800
	KBK9×12×13	49241/9	2.75	9	12	13	4600	5800
	KBK9×12×14		3.5	9	12	14	4700	5900
	KBK9×13×12	39242/9	4.1	9	13	12	5300	5700
	KBK9×13×12.5		4.9	9	13	12.5	5300	5700
	KBK9×13×13	39242/9	5.1	9	13	13	5350	5600
10	KBK10×13×8	29241/10	2	10	13	8	4000	5000
	KBK10×13×10	39241/10	2.4	10	13	10	4200	5200
	KBK10×13×14.5	59241/10	5.1	10	13	14.5	5400	6600
	KBK10×13×16		5.7	10	13	16	6800	7700
	KBK10×14×10	29242/10	3.4	10	14	10	4400	4600
	KBK10×14×11		4	10	14	11	5200	5700
	KBK10×14×12		4.5	10	14	12	5400	6000
	KBK10×14×12.5		4.85	10	14	12.5	5600	6200
	KBK10×14×13	39242/10	5.4	10	14	13	5600	6200
11	KBK11×15×17		5	11	15	17	5200	7000

Shaft Diameter	Bearing Designation		Mass Approx g	Boundary Dimensions			Basic Load Rating	
	Current Code	Original Code		Fw	Ew	Bc	Dynamic	Static
mm				mm			N	
12	KBK12×15×13	49241/12	4.6	12	15	13	5500	7300
	KBK12×15×14.3		5.4	12	15	14.3	5800	7700
	KBK12×15×15	59241/12	5.6	12	15	15	5900	7800
	KBK12×15×16.5		6.2	12	15	16.6	6800	9900
	KBK12×15×17	69241/12	6.3	12	15	17	7000	10000
	KBK12×15×17.5		6.5	12	15	17.5	7000	10000
	KBK12×16×13	39242/12	6.7	12	16	13	6300	7600
	KBK12×16×15	149242/12KY	7.9	12	16	15	7500	9000
	KBK12×16×15.5		8.3	12	16	15.5	7600	10000
	KBK12×16×16	59241/12	8.5	12	16	16	7800	9300
	KBK12×16×17	59242/12	9.2	12	16	17	7900	9400
	KBK12×17×14		8	12	17	14	8000	9500
	KBK12×17×14.3		8.4	12	17	14.3	8000	9500
KBK19×17×14.8		8.8	12	17	14.8	8300	9800	
13	KBK13×17×14.5		7.1	13	17	14.5	8300	10200
	KBK13×17×17.5		8.6	13	17	17.5	9500	12100
14	KBK14×18×10	29241/14	4.6	14	18	10	6260	7400
	KBK14×18×12		6.6	14	18	12	6380	7570
	KBK14×18×13	39241/14	7.6	14	18	13	7300	8700
	KBK14×18×14		6.33	14	18	14	7400	8800
	KBK14×18×14.5		8	14	18	14.5	7400	8800
	KBK14×18×15	49241/14	8.3	14	18	15	7600	8990
	KBK14×18×16.5		9.6	14	18	16.5	8800	9700
	KBK14×18×17	59241/14	10.1	14	18	17	8900	9800
	KBK14×18×20	69241/14	12	14	18	20	9000	10100
	KBK14×18×21		13	14	18	21	10500	12400
	KBK14×19×22		14	14	18	22	11100	13100
KBK14×18×17	49242/14K	10.3	14	19	17	11100	13100	
15	KBK15×19×10	29241/15Y	5	15	19	10	6500	8600
	KBK15×19×18		11	15	19	18	9900	11300
	KBK15×19×19		12	15	19	19	10100	12800
	KBK15×19×20	69241/15	12.9	15	19	20	11300	15500
	KBK15×20×24		18.6	15	20	24	14100	20000
16	KBK16×20×19	SZ-433	12	16	20	19	11700	16800
	KBK16×20×20	69241/16Y	13.4	16	20	20	12900	17600
	KBK16×20×21		14	16	20	21	12900	17600
	KBK16×20×22		15	16	20	22	13000	18700
	KBK16×21×19	59242/16	16	16	21	19	13000	18700

Shaft Diameter	Bearing Designation		Mass Approx	Boundary Dimensions			Basic Load Rating	
	Current Code	Original Code		Fw	Ew	Bc	Dynamic	Static
mm			g	mm			N	
17.5	KBK17.5×22×16		9.3	17.5	22	16	11000	16300
18	KBK18×22×22		16.9	18	22	22	11500	17700
	KBK18×22×23.5		18	18	22	23.5	11900	19000
	KBK18×22×24		18.4	18	22	24	12000	20000
	KBK18×22×25		19.1	18	22	25	12700	20100
	KBK18×23×21		18	18	23	21	9900	10100
	KBK18×23×23	69242/18	20	18	23	23	10500	12000
	KBK18×24×20	49243/18	20	18	24	20	20000	25000
20	KBK20×24×30		22.1	20	24	30	14900	25500
	KBK20×25×22		19.5	20	25	22	15200	22300
	KBK20×25×25		23	20	25	25	17100	24000

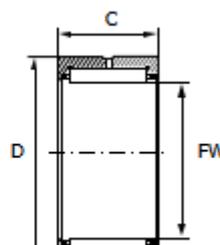
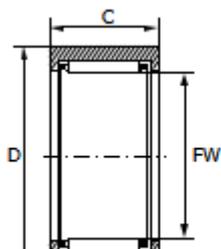
⊙The solid collar needle roller bearing has compact structure, small radial size and large load carrying capacity. It is suitable for the parts of which the radial overall size is limited. It is also wide applied to the situation where the shaft or housing has the swinging motion. In general, the needle roller bearing only withstands the radial load, not the axial load. When the shaft has axial load, it can be used in combination with other bearings. However, it does not limit the axial shift of shaft or housing. The limiting rotational speed of needle roller bearing is lower. In high rotational speed of main machine, the needle roller bearing with cage shall be chosen as far as possible. In comparison with other types of needle roller bearings, under the situation of same radial size, the needle roller bearing has the large load carrying capacity and high rigidity but has high friction torque.

⊙This kind of bearing has many series with different structure and size. It is requested that the hardness, processing accuracy and surface roughness of shaft journal surface and rolling surface of outer housing be same as those of the collar of bearing. As for the needle roller with G2 class, the diameter varies within 2μm in group. Except the full complement needle roller bearings, they have the rigid cages, which can correctly guide the parallel axis line of needle roller.

⊙The needle roller bearing without inner ring is suitable for the parts of which the radial size is limited. Because of no inner ring, the surface of shaft journal fitted with it is acted directly as rolling surface. It is requested that the surface hardness be no less than HRC60, surface roughness, no more than 0.63μm. This kind of bearing does not limit the axial shift of shaft and housing and has high limiting rotational speed.

⊙The inner ring has no shoulder in this bearing. For this purpose, the inner ring, outer ring,

complete set of needles and cage can be mounted respectively. This bearing does not limit the axial shift of shaft and outer housing. Since the cage separates the needles so as to reduce friction. It can be used for the parts with high rotational speed.



Shaft Diameter	Bearing Designation		Mass Approx	Boundary Dimensions			Basic Load Rating		Limiting Speed
	Current Code	Original Code		Fw	D	C	Dynamic	Static	
mm			g	mm			N		rpm
5	NK5/10TN		2.9	5	10	10	2100	1400	36780
	NK05/08			5	10	8			
	NK05/10TN-OH			5	10	12	2350	1920	39000
	NK05/12TN		3.7	5	10	12	3000	2650	39000
6	NK06/10			6	12	10	2600	2200	37000
	NK06/10TN			6	12	10	2600	2200	37000
	NK06/12TN		5.7	6	12	12	3350	3150	37000
	RNA6X13X8TN			6	13	8			

Shaft Diameter	Bearing Designation		Mass Approx	Boundary Dimensions			Basic Load Rating		Limiting Speed
	Current Code	Original Code		Fw	D	C	Dynamic	Static	
mm			g	mm			N		rpm
7	NK07/10		6.9	7	14	10	2850	2650	34000
	NK07/12		8.2	7	14	12	3650	3600	34000
7.8	RNA7.8169			7.8	16	9			
8	NK8L12TN		8.3	8	15	12	3950	4100	32000
	NK08/12		8.7	8	15	12	3950	4100	32000
	NK08/16		12	8	15	16	5100	5800	32000
	NK08/16TN			8	15	16	5100	5800	32000
	RNA8X19X9			8	19	9			
	RN8X14X8			8	14	8			
	RNA496			8	15	10			
RNA8X15X10TN			8	15	10				
9	NK09/12		10.3	9	16	12			
10	NK10/12TN	462409K	10	10	17	12	4750	5300	29000
		5624097	16.6	10	17	15	4860	7100	29000
	NK10/10			10	17	10			
	NK10/12			10	17	12			
	NK10/16			10	17	16	6200	7800	29000
	NK10/16TN			10	17	16	6200	7800	29000

	NKS10			10	19	13	5800	6000	29000
12	NK12/12TN	644097	11.8	12	19	12	6000	6400	27000
		5624098	15.4	12	19	15	6400	7100	27000
	NK12/16		16.8	12	19	16	8200	9800	27000
14	NK14/16	4624900K	20.8	14	22	16	10100	11500	25000
	NKS14		27	14	25	16	1400	13800	24000
	RNA4900	4624900	24.4	14	22	13	8500	9000	25000
	RNA6900	6634900	29.1	14	22	22	12800	15600	25000
	NK14/12			14	22	12			
	NK14/20			14	22	20	12800	15600	25000
15	NK15/12	644800K	18.5	15	23	12	8600	11000	21000
	RNA152815		31.7	15	28	15	13600	17200	24000
		7948/15	16.1	15	22	12	8200	9800	8500
		644302	18.2	15	25	12	10600	13500	17000
	NK15/16		21.8	15	23	16	10700	12700	24000
	NK15/20		26.7	15	23	20	13600	17200	24000
	NK152312			15	23	12			
	NK152512			15	25	12			

Shaft Diameter	Bearing Designation		Mass Approx	Boundary Dimensions			Basic Load Rating		Limiting Speed
	Current Code	Original Code		Fw	D	C	Dynamic	Static	Oil
mm			g	mm			N		rpm
16	NK16/16		20.8	16	24	16	11300	13900	23000
	NK16/20	624701	23.9	16	24	20	10400	16800	23000
	RNA4901	4624901	16.6	16	24	13	6400	8900	15500
	RNA6901	6634901	28.7	16	24	22	14000	18600	15500
	NKS16		30	16	28	16	14900	15000	20000
	NK162516			16	25	16			
	NK162616			16	26	16			
17	NK17/16	644903K	21.5	17	25	16	9000	13500	14000
	NK17/20	RNA172520	30	17	25	20	15000	20000	23000
18	NK18/20		30.5	18	26	20	15500	19800	22000
	NK18/16			18	26	16	12500	16200	22000
19	NK19/16			19	27	16	13000	17000	22000
20	NK20/16	644802	25.7	20	28	16	10500	13800	21000
	NK20/20	624802	29.3	20	28	20	11500	21800	21000
	NK202616		20.8	20	26	16	9600	10800	21000
	NK202620			20	26	20	9600	10800	21000
	NKS20		46.8	20	32	20	20000	23000	20000

	NK203312SX		29.1	20	33	12	13000	18000	11000
		6624101	24.3	20	28	25	13000	17500	11000
	RNA4902	4624902	20.5	20	28	13	11000	12900	12000
	RNA6902	6634902	35.4	20	28	23	10800	12800	12000
	NK20/16			20	32	16	13000	25000	12000
	RNA5902			20	28	18			
21	NK21/12			21	29	12			
	NK21/16			21	29	16	13500	18700	21000
	NK21/20			21	29	20			
22	NK22/16	NK223016	29.2	22	30	16	13500	18000	11500
		NK223516	34.6	22	35	16	18600	20800	11500
	NKS22		60.2	22	35	20	21500	25000	17000
	RNA4903	4644903	20.7	22	30	13	12000	16800	16300
	RNA5903			22	30	18			
	RNA6903	6634903	39.8	22	30	23	14000	19900	16300
		624703	53	22	35	25	24500	28000	14100
		634704L	42.5	22	30	30	17700	27000	16500
		644704	27.4	22	28	16	10500	15000	16500
		NK223516	49.4	22	35	16	18600	20800	16500
	NK22/20			22	30	20			

Shaft Diameter	Bearing Designation		Mass Approx	Boundary Dimensions			Basic Load Rating		Limiting Speed
	Current Code	Original Code		Fw	D	C	Dynamic	Static	Oil
mm			g	mm			N		rpm
23		634704KA	37.5	23	30	30	18600	29000	15000
24	NK24/16			24	32	16			
	NK24 33.5 7.5			24	33.5	7.5			
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	11900	16500	15000
	RNA6904	6634904	97.7	25	37	30	26000	43000	15000
	NKS25		65	25	38	20	25800	31000	16300
		624704	100.1	25	35	25	14900	22400	16500
	NK25/30	644804K	63	25	33	30	18800	30500	165000
	NK253326			25	33	26			
	NK253422			25	34	22			
	NK253425			25	34	25			
NK253820			25	38	20				
NK253825			25	38	25				
NK254517.5			25	45	17.5				
26	NK26/16		30	26	34	16	15000	23000	16300

	NK26/20		40	26	34	20	17000	30000	16300
27	NK27×40×25			27	40	25			
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	15000
	NK28/20		53	28	37	20	22000	34000	16500
	NK28/30			28	37	30	33000	57000	12000
	RNA69/22	63549/22		28	39	30			
29	NK29/20			29	38	20	21900	34000	15000
	NK29/30			29	38	30	32500	57000	15000
30	NK30/20	644805	57.9	30	40	20	20600	32000	15000
	NK30/30		95	30	40	30	31500	50000	15000
	RNA4905	4624905	57	30	42	17	23600	31500	14000
	RNA6905	6634905	106.5	30	42	30	39000	59000	14000
		624905	68	30	42	20	20000	32000	15000
	NK304013			30	40	13			
	NK304430			30	44	30			
	NK304630			30	46	30			
	NK305017			30	50	17			
	NKS30			30	45	17	32000	40000	14000
	RNA305225			30	52	25			

Shaft Diameter	Bearing Designation		Mass Approx	Boundary Dimensions			Basic Load Rating		Limiting Speed
	Current Code	Original Code		Fw	D	C	Dynamic	Static	Oil
mm			g	mm			N		rpm
30.5	NK30.5 50 16			30.5	50	16			
	NK30.5 50 17			30.5	50	17			
31	NK31.75×44.45×31.75			31.75	44.45	22			
32	NK32/20	624705	75.4	32	42	20	22600	33500	15000
	RNA49/28	46449/28K	80	32	45	17	17400	30000	13000
	NAS32		100	32	47	22	31000	40000	13000
	RNA69/28		125	32	45	30	39500	61300	13000
		644906	42	32	38	11	10750	30500	12000
		644706	193	32	50	35	40500	63000	12000
	NKS32		100	32	47	22	31000	40000	12000
	NK32/30			32	42	30	33500	60000	12000
RNA324527			32	45	27				
34	NK345034			34	50	34			
	NK345035			34	50	35			
35	NK35/20	644806	70	35	45	20	13800	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		43500	71000	12000
	NK354512			35	45	12			
	NK354830			35	48	30			
	NK355034			35	50	34			
	NK355236			35	52	36			
	RNA354527			35	45	27			
	RNA5906		108	35	47	23			
	RNA355730			35	57	30			
	RNA355734			35	57	34			
36	NK365225			36	52	25			
37		624706	154	37	52	22	28500	45500	9000
	NK37/20			37	47	20	24900	43500	12000
	NK37/30			37	47	30	37000	73000	12000
38	NK38/20			38	48	20	25500	45000	12000
	NK38/30			38	48	30	38000	76000	12000
40	NK40/20		78.9	40	50	20	26500	43000	11000
	NK40/30		120	40	50	30	37500	79000	11000
	NK404815			40	48	15			
	NK405530			40	55	30			
	NKS40			40	55	22	38000	54000	11000

Shaft Diameter	Bearing Designation		Mass	Boundary Dimensions			Basic Load Rating		Limiting Speed
	Current Code	Original Code		Approx	Fw	D	C	Dynamic	
mm			g	mm			N		rpm
40	RNA49/32			40	52	20			
	RNA69/32	66349/32	147	40	52	36	25500	68500	8500
	RNA405422			40	54	22			
	RNA40X55X20			40	55	20			
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	8700
	RNA5907			42	55	27			
	RNA6907	6634907	160	42	55	36	26000	60500	8700
		644708	148	42	65	22	31500	51000	8700
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
	NK45/30			45	55	30	41000	88000	7650

	NKS45			45	60	22	40500	60000	7650
	RNA456227K			45	62	27			
47	NK47/20			47	57	20	28500	56000	7650
	NK47/30			47	57	30	43000	94000	7650
48	RNA4908	4644908	132	48	62	22	31000	63000	8120
	RNA5908		225	48	62	30	31000	63000	8120
	RNA6908	6634908	238	48	62	40	64000	112000	8120
50	RNA50/25		167	50	62	25	28000	67000	8140
	RNA50/35		236	50		35	32000	70100	8140
		624708K	328	50	65	34	40000	62000	8140
	NK50/14			50	64	14	32000	70100	8140
	NK50/15			50	65	15	40000	62000	8140
	NK50/27YA	644810	257	50	67	27			
	NKS50			50	65	22			
	NK506825			50	68	25			
52	RNA4909	4624909	163	52	68	22	37000	69500	7600
	RNA5909		232	52	68	30			
	RNA6909	6634909	308	52	68	40	61500	123500	7600
55	NK55/25		167	55	68	25	30600	60800	7600
		624709	210	55	68	25	36000	68000	7600
	NK55/30			55	68	30	48000	63000	7600
	NK55/35			55	68	35	55000	74000	7600

Shaft Diameter	Bearing Designation		Mass Approx	Boundary Dimensions				Basic Load Rating		Limiting Speed
	Current Code	Original Code		d	Fw	D	B	Dynamic	Static	Oil
mm			g	mm				N		rpm
22	NKI 22/16		50	22	26	34	16	15300	23600	17000
	NA49/22		76	22	28	39	17	22000	29500	15000
	NA69/22		130	22	28	39	30	37500	55000	15000
	NA223934			22	28	39	34			
23	NA2020		115	23		42	22			
25	NKI 25/30		76	25	29	38	30	31500	56000	14000
	NA4905	4524905	138	25	30	42	17	23600	31500	14000
	NA6905	6534905	160	25	30	42	30	29000	59000	14000
	NKIS25			25	32	47	22	32000	55000	13000
		F-208277		25	32	47	22			
	NKI 25/20			25	29	38	20	21900	34000	15000
28	NA49/28	45449/28	98	28	32	45	17	24000	33500	14000
	NA69/28		170	28	32	45	30	40500	63000	14000

	NKI 28/20			28	32	42	20	23000	37500	14000
30	NA4906	4544906	115	30	35	47	17	25000	35500	13000
	NA5906	6534906	152	30	35	47	23			
	NA6906			30	35	47	30	43500	71000	13000
	NKI 30/20			30	35	45	20	24000	42500	13000
	NKI 30/30			30	35	45	30	36500	69000	13000
32	NK132/20			32	37	47	20	24900	43900	12000
		TAFI324720		32	37	47	20	24900	43500	12000
	NA49/32	45449/32	150	32	40	52	20	24900	43500	12000
	NA69/32	66349/32	272	32	40	52	36	100000	100000	11000
35	NKI 35/30		165	35	40	50	30	39000	79000	11000
	NA4907	4524907	151	35	42	55	20	19800	41500	11000
	NA6907	6534907	301	35	42	55	36	26000	60500	11000
	NKIS35		220	35	43	58	22	33000	56000	9500
	NA5907		256	35	42	55	27			
40	NKI 40/20		124	40	45	55	20	22000	48000	10000
	NKI 40/30		184	40	45	55	30	35000	86000	10000
	NA4908	4544908	240	40	48	62	22	42000	65000	8500
	NA6908		401	40	48	62	40	64000	112000	8500
	NA5908		348	40	48	62	30	53000	92500	8500
42	NKI 42/20		138	40	47	57	20	26000	52500	9500

Shaft Diameter	Bearing Designation		Mass Approx	Boundary Dimensions				Basic Load Rating		Limiting Speed
	Current Code	Original Code		d	Fw	D	B	Dynamic	Static	Oil
mm			g	mm				N		rpm
45	NKI 45/25		218	42	50	62	25	36000	70000	8500
	NKI 45/35		289	42	50	62	35	41500	102000	8500
	NA4909	4544909	260	45	50	68	22	37000	96500	8000
	NA6909	6534909	479	45	50	68	40	61500	123500	8000
	NKIS45		306	45	55	72	22	43000	71000	7500
	NA5909		396	45	50	68	30			
50	NKI 50/25	TAFI506825	262	50	55	68	25	32000	78000	7500
	NA4910	4544910	264	50	58	72	22	41000	72000	7500
	NA5910			50	58	72	30			
	NA6910	6534910	457	50	58	72	40	68000	135000	7500
	NKIS50		510	50	60	80	28	60000	95000	7500
	NKI 50/35	TAFI506835		50	55	68	35	53000	118000	7500
55	NKI 55/35		357	55	60	72	35	48000	126800	7500
	NA4911	4544911	386	55	63	80	25	50600	96580	7500

	NA5911			55	63	80	34			
	NA6911	6534911	790	55	63	80	45	82560	172000	7500
60	NKI 60/25		388	60	68	82	25	35500	85000	7000
	NA4912	4544912	412	60	68	85	25	52800	110500	6500
	NA5912		614	60	68	85	34			
	NA6912	6534612	798	60	68	85	45	88500	186000	6500
	NKIS60		550	60	70	90	28	65000	110000	6500
65	NA4913	4544913	435	65	72	90	25	57500	110500	6500
	NA6913	6534913	821	65	72	90	45	87600	194500	6500
	NKI 65/25			65	73	90	25	53000	100000	6500
	NKI 65/35			65	73	90	35	75000	156000	6500
70	NA4914	4544914	712	70	80	100	30	79000	154000	5500
	NA6914	6534914	1326	70	80	100	54	121000	263000	5500
	NKI 70/35			70	80	95	35	78000	184000	5500
75	NA4915	4544915	765	75	85	105	30	82000	158000	5500
	NA5915		1130	75	85	105	40			
	NA6915	6534915	1429	75	85	105	54	128000	272000	5500
80	NA4916	4544916	870	80	90	110	30	81000	170500	5500
	NA6916	6534916	1510	80	90	110	54	130500	280600	5000
	NKI 80/35			80	90	110	35	103000	208000	5000
85	NKI 85/26			85	95	115	26	73000	137000	4800
	NKI 85/36		1040	85	95	115	36	107000	223000	4800
	NA4917	4544917	1250	85	100	120	35	111000	237000	4600
	NA6917	6534917	2200	85	100	120	63	166000	400000	4600

Shaft Diameter	Bearing Designation		Mass Approx	Boundary Dimensions				Basic Load Rating		Limiting Speed
	Current Code	Original Code		d	Fw	D	B	Dynamic	Static	Oil
mm			g	mm				N		rpm
90	NKI 90/26			90	100	120	26	26000	146000	4600
	NA4918	4544918	1312	90	105	125	35	114000	250000	4600
	NA6918	6534918	2310	90	105	125	63	172000	425000	4600
95	NA4919	4544919	1371	95	110	130	35	116000	260000	4200
	NA6919	6534919	2500	95	110	130	63	174000	440000	4200
	NKI 95/26			95	105	125	26	78000	115000	4200
	NKI 95/36			95	105	125	36	114000	250000	4200
100	NA4920	4544920	1900	100	115	140	40	12000	274000	4000
	NKI100/30			100	110	130	30	98000	210000	4000
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	3600
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
150	NA4830		2720	150	165	190	40	152000	400000	2800
160	NA4832		2890	160	175	200	40	160000	435000	2700
170	NA4834		3960	170	185	215	45	185000	510000	2500
180	NA4836		4200	180	195	225	45	194000	550000	2400
190	NA4838		5600	190	210	240	50	227000	690000	2300
200	NA4840		5840	200	220	250	50	230000	720000	2200
220	NA4844		6380	220	240	270	50	243000	790000	2000
240	NA4848		10000	240	265	300	60	355000	1080000	1800
260	NA4852	4524852	11300	260	285	320	60	37000	1160000	1700

Koyo Part #	INA Part #	IKO Part #	Koyo Part #	INA Part #	IKO Part #
K10X13X10H	K10X13X10TN	KT101310C3	K22X26X10H	K22X26X10A	KT222610C3
K10X13X13F	K10x13x13TV	KT101313C3	K22X26X13H	K22X26X13A	KT222613C3
K10X14X10H	K10X14X10TN	KT101410C3	K22X26X17FH	K22X26X17A	KT222617C3
K10X14X13H	K10X14X13TN	KT101413C3	K22X28X17H	K22X28X17A	KT222817C3
K10X16X12F	K10X16X12TN	KT101612C3	K24X28X10H	K24X28X10A	KT242810C3
K110X118X30FH	K110X118X30	KT11011830C3	K24X28X13H	K24X28X13A	KT242813C3
K12X15X10H	K12X15X10TN	KT121510C3	K24X30X17H	K24X30X17A	KT243017C3
K12X15X13	K12X15X13TN	KT121513C3	K25X29X10H	K25X29X10A	KT252910C3
K12X15X13H	K12X15X13TN	KT121513C3	K25X29X13H	K25X29X13A	KT252913C3
K12X16X13F	K12X16X13TN	KT121613C3	K25X29X17FH	K25X29X17A	KT252917C3
K12X17X13	K12X17X13TN	KT121713C3	K25X30X13	K25X30X13A	KT253013C3
K12X18X12H	K12X18X12TN	KT121812C3	K25X30X17H	K25X30X17A	KT253017C3
K14X18X10	K14X18X10B	KT141810C3	K25X30X18		KT253018C3
K14X18X13	K14X18X13A	KT141813C3	K25X30X20H	K25X30X20B	KT253020C3
K14X18X15	K14X18X15TN	KT141815C3	K25X31X21H	K25X31X21B	KT253121C3



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K14X18X17H	K14X18X17A	KT141817C3	K25X32X16	K25X32X16B	KT253216C3
K14X20X12	K14X20X12	KT142012C3	K25X33X24H	K25X33X24A	KT253324C3
K15X18X17F	K15X18X17TN	KT151817C3	K25X35X30H	K25X35X30A	KT253530C3
K15X19X10	K15X19X10A	KT151910C3	K26X30X13F	K26X30X13A	KT263013C3
K15X19X13	K15X19X13A	KT151913C3	K26X30X17F	K26X30X17A	KT263017C3
K15X19X17	K15X19X17A	KT151917C3	K28X33X13F	K28X33X13B	KT283313C3
K15X21X15F	K15X21X15A	KT152115C3	K28X33X17H	K28X33X17A	KT283317C3
K15X21X21	K15X21X21A	KT152121C3	K28X34X17	K28X34X17A	KT283417C3
K16X20X10	K16X20X10A	KT162010C3	K28X35X16H	K28X35X16A	KT283516C3
K16X20X13	K16X20X13A	KT162013C3	K28X40X25H	K28X34X17A	KT284025C3
K16X20X17F	K16X20X17A	KT162017C3	K30X34X13	K30X34X13	KT303413C3
K16X20X17H	K16X20X17A	KT162017C3	K30X35X13H	K30X35X13B	KT303513C3
K17X21X10H	K17X21X10A	KT172110C3	K30X35X17H	K30X35X17B	KT303517C3
K18X22X10	K18X22X10A	KT182210C3	K30X35X20H	K30X35X20A	KT303520C3
K18X22X13H	K18X22X13A	KT182213C3	K30X35X27H	K30X35X27A	KT303527C3
K18X22X17H	K18X22X17A	KT182217C3	K30X40X30H	K30X40X30A	KT304030C3
K18X24X12	K18X24X12A	KT182412C3	K32X37X13F	K32X37X13B	KT323713C3
K18X25X22H	K18X25X22B	KT182522C3	K32X37X17H	K32X37X17A	KT323717C3
K19X23X17F	K19X23X17A	KT192317C3	K32X38X20FH	K32X38X20A	KT323820C3
K20X24X10	K20X24X10A	KT202410C3	K32X38X26H	K32X38X26A	KT323826C3
K20X24X13	K20X24X13A	KT202413C3	K32X39X18H	K32X39X18A	KT323918C3
K20X24X13H	K20X24X13A	KT202413C3	K32X40X25H	K32X40X25A	KT324025C3
K20X24X14		KT202414C3	K32X46X32H	K32X46X32	KT324632C3
K20X24X17H	K20X24X17A	KT202417C3	K35X40X13H	K35X40X13A	KT354013C3
K20X26X12	K20X26X12B	KT202612C3	K35X40X17H	K35X40X17A	KT354017C3
K20X26X13H	K20X26X13A	KT202613C3	K35X40X27H	K35X40X27TN	KT354027C3

Koyo Part #	INA Part #	IKO Part #	Koyo Part #	INA Part #	IKO Part #
K20X26X17H	K20X26X17A	KT202617C3	K35X42X16	K35X42X16A	KT354216C3
K20X26X20	K20X26X20A	KT202620C3	K35X42X18	K35X42X18B	KT354218C3
K20X28X25AH	K20X28X25A	KT202825AC3	K35X42X20H	K35X42X20A	KT354220C3
K20X30X30H	K20X30X30A	KT203030C3	K35X42X30FH	K35X42X30B	KT354230C3
K35X45X20FH	K35X45X20A	KT354520C3	K5X8X10TN1	K5X8X10TN	KT5810C3
K37X42X17H	K37X42X17A	KT374217C3	K5X8X8TN	K5X8X8TN	KT588C3
K38X46X20	K38X46X20B	KT384620C3	K5X9X13TN		KT5913C3
K38X46X32H	K38X46X32A	KT384632C3	K60X65X20H	K60X65X20A	KT606520C3
K40X45X13H	K40X45X13A	KT404513C3	K60X65X30F	K60X65X30A	KT606530C3
K40X45X17H	K40X45X17B	KT404517C3	K60X68X20H	K60X68X20A	KT606820C3
K40X45X27H	K40X45X27B	KT404527C3	K60X68X25	K60X68X25A	KT606825C3

K40X47X18	K40X47X18A	KT404718C3	K65X70X20CH	K65X70X20A	KT657020C3
K40X48X20H	K40X48X20A	KT404820C3	K65X73X23H	K65X73X23B	KT657323C3
K42X47X13H	K42X47X13A	KT424713C3	K65X73X30H	K65X73X30B	KT657330C3
K45X50X17H	K45X50X17B	KT455017C3	K6X9X10TN	K6X9X10TN	KT6910C3
K45X52X18H	K45X52X18A	KT455218C3	K6X9X8	K6X9X8TN	KT698C3
K45X53X28H	K45X53X28A	KT455328C3	K70X76X20F	K70X76X20A	KT707620C3
K47X52X17H		KT475217C3	K70X78X30H	K70X78X30A	KT707830C3
K47X52X27H	K47X52X27	KT475227C3	K75X83X30FH	K75X83X30A	KT758330C3
K48X53X17H	K48X53X17	KT485317C3	K7X10X10TN	K7X10X10TN	KT71010C3
K4X7X7TN	K4X7X7TN	KT477TNC3	K7X10X8TNA	K7X10X8TN	KT7108AC3
K50X55X20H	K50X55X20B	KT505520C3	K80X86X20FH	K80X86X20A	KT808620C3
K50X55X30F	K50X55X30B	KT505530C3	K85X92X20CH	K85X92X20B	KT859220C3
K50X57X18FH	K50X57X18A	KT505718C3	K85X93X30H		KT859330C3
K50X58X20H	K50X58X20B	KT505820C3	K8X11X10	K8X11X10TN	KT81110C3
K50X58X25H	K50X58X25B	KT505825C3	K8X11X13F	K8X11X13TN	KT81113C3
K55X60X20H	K55X60X20B	KT556020C3	K8X11X8FV	K8X11X8TN	KT8118C3
K55X60X30F	K55X60X30B	KT556030C3	K8X11X8TN	K8X11X8TN	KT8118C3
K55X63X20	K55X63X20B	KT556320C3	K90X97X20	K90X97X20A	KT909720C3
K55X63X20H	K55X63X20B	KT556320C3	K90X98X30F	K90X98X30A	KT909830C3
K55X63X25	K55X63X25B	KT556325C3	K9X12X10FV	K9X12X10TN	KT91210C3
K55X63X32F	K55X63X32A	KT556332C3	K9X12X13FV	K9X12X13TN	KT91213C3

Koyo Part #	INA Part #	IKO Part #
BK0408	BK0408B	TLAM48
BK0509	BK0509	TLAM59
BK0609B	BK0609	TLAM69
BK0808	BK0808	
BK0810	BK0810	TLAM810
BK0912B	BK0912	TLAM912
BK1010B	BK1010	TLAM1010
BK1015	BK1015	TLAM1015
BK1210B	BK1010	TLAM1010
BK1212B	BK1212	TLAM1212
BK1512B	BK1512	TLAM1512
BK1612B	BK1612	TLAM1612
BK2016	BK2016	TLAM2016

Koyo Part #	INA Part #	IKO Part #
HK1216.2RS.AS1	HK12162RSAS1	
HK1312	HK1312	TLA1312Z
HK1312B	HK1312	TLA1312Z
HK1412	HK1412	TLA1412Z
HK1412B	HK1412	TLA1412Z
HK1414RS	HK1414RS	
HK1416.2RS	HK14162RS	
HK1512	HK1512	TLA1512Z
HK1512AS1	HK1512AS1	
HK1514RS	HK1514RS	
HK1516B	HK1516	TLA1516Z
HK1516B.AS1	HK1516AS1	
HK1522	HK1522	TLA1522Z



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BK2020	BK2020	TLAM2020
BK2520	BK2520	TLAM2520
BK2526B	BK2526	TLAM2526
BK3020	BK3020	TLAM3020
BK3026	BK3026	TLAM3026
BK3038	BK3038	TLAMW3038
BK3520	BK3520	TLAM3520
BK4020	BK4020	TLAM4020
HK0306	HK0306	TLA36Z
HK0408	HK0408	TLA48Z
HK0509	HK0509	TLA59Z
HK0608	HK0608	TLA68Z
HK0608E	HK0608	TLA68Z
HK0609E	HK0609	TLA69Z
HK0709	HK0709	TLA79Z
HK0808E	HK0808	TLA88Z
HK0810	HK0810	TLA810Z
HK0810RS	HK0810RS	
HK0910	HK0910	TLA910Z
HK0912	HK0912	TLA912Z
HK1010	HK1010	TLA1010Z
HK1010AS1	HK1010AS1	
HK1010E	HK1010	TLA1010Z
HK1012	HK1012	TLA1012Z
HK1012ARS	HK1012RS	
HK1015A	HK1015	TLA1015Z
HK1210	HK1210	TLA1210Z
HK1210B	HK1210	TLA1210Z

HK1612	HK1612	TLA1612Z
HK1614B.RS	HK1614RS	
HK1614RS	HK1614RS	
HK1616.2RS	HK16162RS	
HK1616B	HK1616	TLA1616Z
HK1616B.AS1	HK1616AS1	
HK1622	HK1622	TLA1622Z
HK1712	HK1712	TLA1712Z
HK1812	HK1812	TLA1812Z
HK1814RS	HK1814RS	
HK1816	HK1816	TLA1816Z
HK1816.2RS	HK18162RS	
HK2012	HK2012	TLA2012Z
HK2016	HK2016	TLA2016Z
HK2016.2RS	HK20162RS	
HK2018RS	HK2018RS	
HK2020.2RS	HK20202RS	
HK2020B	HK2020	TLA2020Z
HK2030	HK2030	TLA2030Z
HK2212	HK2212	TLA2212Z
HK2216	HK2216	TLA2216Z
HK2216.2RS	HK22162RS	
HK2218RS	HK2218RS	
HK2220	HK2220	TLA2220Z
HK2220.2RS	HK22202RS	
HK2512B	HK2512	TLA2512Z
HK2516.2RS	HK25162RS	
HK2516B	HK2516	TLA2516Z

Koyo Part #	INA Part #	IKO Part #
HK1210C	HK1210	TLA1210Z
HK1212	HK1212	TLA1212Z
HK1214B.RS	HK1214RS	
HK1216.2RS	HK12162RS	
HK2518RS	HK2518RS	
HK2520	HK2520	TLA2520Z
HK2520.2RS	HK25202RS	
HK2524.2RS	HK25242RS	
JR100X110X30	IR100X110X30	LRT10011030
JR100X110X40	IR100X110X40	LRT10011040
JR100X115X40	IR100X115X40	LRT10011540
JR10X14X12	IR10X14X12	LRT101412

Koyo Part #	INA Part #	IKO Part #
JR17X22X16	IR17X22X16	LRT172216
JR17X22X23	IR17X22X23	LRT172223
JR20X24X16	IR20X24X16	LRT202416
JR20X24X20	IR20X24X20	LRT202420
JR20X25X16	IR20X25X16	LRT202516
JR20X25X17	IR20X25X17	LRT202517
JR20X25X20	IR20X25X20	LRT202520
JR20X25X20,5	IR20X25X20.5	LRT202520
JR20X25X26	IR20X25X26	LRT202526
JR20X25X26,5	IR20X25X26.5	
JR20X25X30	IR20X25X30	LRT202530
JR20X25X38,5	IR20X25X38.5	

JR10X14X12	IR10X14X12	LRT101412
JR10X14X13	IR10X14X13	LRT101413
JR10X14X16	IR10X14X16	LRT101416
JR10X14X20	IR10X14X20	LRT101420
JR110X120X30	IR110X120X30	LRT11012030
JR110X125X40	IR110X125X40	LRT11012540
JR120X130X30	IR120X130X30	LRT12013030
JR12X15X12,5	IR12X15X12.5	
JR12X15X16	IR12X15X16	LRT121516
JR12X15X16	IR12X15X16	LRT121516
JR12X15X16,5	IR12X15X16.5	
JR12X15X22,5	IR12X15X22.5	
JR12X16X12	IR12X16X12	LRT121612
JR12X16X13	IR12X16X13	LRT121613
JR12X16X13	IR12X16X13	LRT121613
JR12X16X16	IR12X16X16	LRT121616
JR12X16X20	IR12X16X20	LRT121620
JR12X16X22	IR12X16X22	LRT121622
JR130X145X35	IR130X145X35	LRT13014535
JR140X160X50	IR140X160X50	LRT14016050
JR14X17X17	IR14X17X17	LRT141717
JR15X18X16	IR15X18X16	
JR15X18X16,5	IR15X18X16.5	
JR15X19X16	IR15X19X16	LRT151916
JR15X20X12	IR15X20X12	LRT152012
JR15X20X13	IR15X20X13	LRT152013
JR15X20X13	IR15X20X13	LRT152013
JR15X20X16	IR15X20X16	
JR15X20X23	IR15X20X23	LRT152023

JR22X26X16	IR22X26X16	LRT222616
JR22X28X17	IR22X28X17	LRT222817
JR22X28X30	IR22X28X30	LRT222830
JR25X29X20	IR25X29X20	LRT252920
JR25X29X20	IR25X29X20	LRT252920
JR25X29X30	IR25X29X30	LRT252930
JR25X30X16	IR25X30X16	LRT253016
JR25X30X17	IR25X30X17	LRT253017
JR25X30X20	IR25X30X20	LRT253020
JR25X30X20,5	IR25X30X20.5	LRT253020
JR25X30X26,5	IR25X30X26.5	
JR25X30X30	IR25X30X30	LRT253030
JR25X30X32	IR25X30X32	LRT253032
JR25X30X38,5	IR25X30X38.5	
JR25X32X22	IR25X32X22	
JR28X32X17	IR28X32X17	LRT283217
JR28X32X20	IR28X32X20	LRT283220
JR28X32X30	IR28X32X30	LRT283230
JR28X32X30	IR28X32X30	LRT283230
JR30X35X13	IR30X35X13	
JR30X35X16	IR30X35X16	LRT303516
JR30X35X17	IR30X35X17	LRT303517
JR30X35X20	IR30X35X20	LRT303520
JR30X35X20,5	IR30X35X20.5	
JR30X35X26	IR30X35X26	LRT303526
JR30X35X30	IR30X35X30	LRT303530
JR30X35X32	IR30X35X32	LRT303532
JR30X37X22	IR30X37X22	
JR32X37X20	IR32X37X20	LRT323720

Koyo Part #	INA Part #	IKO Part #
JR15X20X26	IR15X20X26	LRT152026
JR160X175X40	IR160X175X40	LRT16017540
JR17X20X16,5	IR17X20X16.5	
JR17X20X20	IR17X20X20	LRT172020
JR17X20X20,5	IR17X20X20.5	LRT172020
JR17X20X30,5	IR17X20X30.5	
JR17X21X20	IR17X21X20	LRT172120
JR17X22X13	IR17X22X13	LRT172213
JR17X22X13	IR17X22X13	LRT172213
JR17X22X16	IR17X22X16	LRT172216
JR35X42X36	IR35X42X36	LRT354236

Koyo Part #	INA Part #	IKO Part #
JR32X37X30	IR32X37X30	LRT323730
JR32X40X20	IR32X40X20	LRT324020
JR32X40X36	IR32X40X36	LRT324036
JR35X40X17	IR35X40X17	LRT354017
JR35X40X20	IR35X40X20	LRT354020
JR35X40X20,5	IR35X40X20.5	
JR35X40X30	IR35X40X30	LRT354030
JR35X42X20	IR35X42X20	LRT354220
JR35X42X20	IR35X42X20	LRT354220
JR35X42X36	IR35X42X36	LRT354236
JR50X60X28	IR50X60X28	



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JR38X43X30	IR38X43X30	LRT384330
JR38X43X30	IR38X43X30	LRT384330
JR40X45X17	IR40X45X17	LRT404517
JR40X45X20	IR40X45X20	LRT404520
JR40X45X20,5	IR40X45X20.5	
JR40X45X30	IR40X45X30	LRT404530
JR40X48X22	IR40X48X22	LRT404822
JR40X48X22	IR40X48X22	LRT404822
JR40X48X40	IR40X48X40	LRT404840
JR40X50X20	IR40X50X20	LRT405020
JR40X50X20	IR40X50X20	LRT405020
JR40X50X22	IR40X50X22	
JR42X47X20	IR42X47X20	LRT424720
JR42X47X30	IR42X47X30	LRT424730
JR45X50X20	IR45X50X20	LRT455020
JR45X50X25	IR45X50X25	LRT455025
JR45X50X25,5	IR45X50X25.5	
JR45X50X35	IR45X50X35	LRT455035
JR45X52X22	IR45X52X22	LRT455222
JR45X52X40	IR45X52X40	LRT455240
JR45X52X40	IR45X52X40	LRT455240
JR45X55X20	IR45X55X20	LRT455520
JR45X55X22	IR45X55X22	
JR50X55X20	IR50X55X20	LRT505520
JR50X55X25	IR50X55X25	LRT505525
JR50X55X35	IR50X55X35	LRT505535
JR50X58X22	IR50X58X22	LRT505822
JR50X58X40	IR50X58X40	LRT505840
JR50X60X20	IR50X60X20	LRT506020
JR50X60X25	IR50X60X25	LRT506025

JR55X60X25	IR55X60X25	LRT556025
JR55X60X35	IR55X60X35	LRT556035
JR55X60X35	IR55X60X35	LRT556035
JR55X63X25	IR55X63X25	LRT556325
JR55X63X45	IR55X63X45	LRT556345
JR55X65X28	IR55X65X28	
JR55X65X30	IR55X65X30	LRT556530
JR5X8X12	IR5X8X12	LRT5812
JR60X68X25	IR60X68X25	LRT606825
JR60X68X35	IR60X68X35	LRT606835
JR60X68X45	IR60X68X45	LRT606845
JR60X70X25	IR60X70X25	LRT607025
JR60X70X28	IR60X70X28	
JR65X72X25	IR65X72X25	LRT657225
JR65X72X45	IR65X72X45	LRT657245
JR65X73X25	IR65X73X25	
JR65X73X35	IR65X73X35	LRT657335
JR65X75X28	IR65X75X28	
JR6X10X10	IR6X10X10	LRT61010
JR6X9X12	IR6X9X12	LRT6912
JR6X9X16	IR6X9X16	LRT6916
JR70X80X25	IR70X80X25	LRT708025
JR70X80X30	IR70X80X30	LRT708030
JR70X80X35	IR70X80X35	LRT708035
JR70X80X54	IR70X80X54	LRT708054
JR70X80X60	IR70X80X60	LRT708060
JR75X85X25	IR75X85X25	LRT758525
JR75X85X30	IR75X85X30	LRT758530
JR75X85X54	IR75X85X54	LRT758554
JR7X10X10,5	IR7X10X10.5	

Koyo Part #	INA Part #	IKO Part #
JR7X10X12	IR7X10X12	LRT71012
JR80X90X25	IR80X90X25	LRT809025
JR80X90X30	IR80X90X30	LRT809030
JR80X90X35	IR80X90X35	LRT809035
JR80X90X54	IR80X90X54	LRT809054
JR85X100X35	IR85X100X35	LRT8510035
JR85X95X26	IR85X95X26	LRT859526
JR85X95X36	IR85X95X36	LRT859536
JR8X12X10	IR8X12X10	
JR8X12X10,5	IR8X12X10.5	

Koyo Part #	INA Part #	IKO Part #
NA4901A.2RS	NA49012RS	NA4901UU
NA4902	NA4902	NA4902
NA4902A.2RS	NA49022RS	NA4902UU
NA4903	NA4903	NA4903
NA4903A.2RS	NA49032RS	NA4903UU
NA4904	NA4904	NA4904
NA4904A.2RS	NA49042RS	NA4904UU
NA4904ARS	NA4904RS	
NA4905	NA4905	NA4905
NA4905A.2RS	NA4905A.2RS	NA4905UU

JR90X100X26	IR90X100X26	LRT9010026
JR90X100X30	IR90X100X30	LRT9010030
JR90X100X36	IR90X100X36	LRT9010036
JR95X110X35	IR95X110X35	LRT9511035
JR9X12X12	IR9X12X12	LRT91212
JR9X12X16	IR9X12X16	LRT91216
NA22/6.2RS	NA22/62RS	
NA22/6.2RS.DZ		
NA22/8.2RS	NA22/82RS	
NA22/8.2RS.DZ		
NA2200.2RS	NA22002RS	
NA2200.2RS.DZ		
NA2201.2RS	NA22012RS	
NA2202.2RS	NA22022RS	
NA2202.2RS.DZ		
NA2203.2RS	NA22032RS	
NA2203.2RS.DZ		
NA2204.2RS	NA22042RS	
NA2204.2RS.DZ		
NA2205.2RS	NA22052RS	
NA4822	NA4822	
NA4824	NA4824	
NA4826	NA4826	
NA4828	NA4828	
NA4830A	NA4830	
NA49/22	NA49/22	NA49/22
NA49/28	NA49/28	NA49/28
NA49/32	NA49/32	NA49/32
NA4900	NA4900	NA4900
NA4900A.2RS	NA49002RS	NA4900UU
NA4901	NA4901	NA4901

NA4906	NA4906	NA4906
NA4906A.2RS	NA49062RS	NA4906UU
NA4907	NA4907	NA4907
NA4907A.2RS	NA49072RS	NA4907UU
NA4908	NA4908	NA4908
NA4908A.2RS	NA49082RS	NA4908UU
NA4909	NA4909	NA4909
NA4909A.2RS	NA49092RS	NA4909UU
NA4910	NA4910	NA4910
NA4910A.2RS	NA49102RS	NA4910UU
NA4911	NA4911	NA4911
NA4912	NA4912	NA4912
NA4913	NA4913	NA4913
NA4914	NA4914	NA4914
NA4915	NA4915	NA4915
NA4916	NA4916	NA4916
NA4917	NA4917	NA4917
NA4918	NA4918	NA4918
NA4919	NA4919	NA4919
NA4920	NA4920	NA4920
NA4922	NA4922	NA4922
NA4924	NA4924	NA4924
NA4926	NA4926	NA4926
NA4928	NA4928	NA4928
NA69/22	NA69/22	NA69/22
NA69/28A	NA69/28	NA69/28
NA69/32A	NA69/32	NA69/32
NA6901A	NA6901	NA6901
NA6902A	NA6902	NA6902
NA6903A	NA6903	NA6903
NA6904A	NA6904	NA6904

Koyo Part #	INA Part #	IKO Part #
NA6905A	NA6905	NA6905
NA6906A	NA6906	NA6906
NA6907A	NA6907	NA6907
NA6908A	NA6908	NA6908
NA6909A	NA6909	NA6909
NA6910A	NA6910	NA6910
NA6911A	NA6911	NA6911
NA6912A	NA6912	NA6912
NA6913A	NA6913	NA6913

Koyo Part #	INA Part #	IKO Part #
NK20/16A	NK20/16	TAF202816
NK20/20A	NK20/20	TAF202820
NK21/16A	NK21/16	TAF212916
NK21/20A	NK21/20	TAF212920
NK22/16A	NK22/16	TAF223016
NK22/20A	NK22/20	TAF223020
NK24/16A	NK24/16	TAF243216
NK24/20A	NK24/20	TAF243220
NK25/16A	NK25/16	TAF253316



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NA6914A	NA6914	NA6914
NA6915A	NA6915	NA6915
NA6915A	NA6915	NA6915
NA6916	NA6916	NA6916
NA6917	NA6917	NA6917
NA6919	NA6919	NA6919
NAO17X30X13	NAO17X30X13	NAF173013
NAO20X35X17	NAO20X35X17	NAF203517
NAO25X40X17	NAO25X40X17	NAF254017
NAO35X50X17	NAO35X50X17	NAF355017
NAO35X55X20	NAO35X55X20	NAF355520
NAO40X55X17	NAO40X55X17	NAF405517
NK10/12	NK10/12TN	TAF101712
NK10/16TN	NK10/16TN	TAF101716
NK100/26A	NK100/26A	
NK100/36A	NK100/36	
NK110/30A	NK110/30	TAF11013030
NK110/40A	NK110/40	TAF11013040
NK12/12A	NK12/12	TAF121912
NK12/16	NK12/16	TAF121916
NK14/16A	NK14/16	TAF142216
NK14/20A	NK14/20	TAF142220
NK15/16A	NK15/16	TAF152316
NK15/20A	NK15/20	TAF152320
NK16/16A	NK16/16	TAF162416
NK16/20A	NK16/20	TAF162420
NK17/16A	NK17/16	TAF172516
NK17/20A	NK17/20	TAF172520
NK18/16A	NK18/16	TAF182616
NK18/20A	NK18/20	TAF182620
NK19/16A	NK19/16	TAF192716
NK19/20A	NK19/20	TAF192720

NK25/20A	NK25/20	TAF253320
NK26/16A	NK26/16	TAF263416
NK26/20A	NK26/20	TAF263420
NK28/20A	NK28/20	TAF283720
NK28/30ASR1	NK28/30SR1	TAF283730
NK29/20A	NK29/20	TAF293820
NK29/30A	NK29/30	TAF293830
NK30/20A	NK30/20	TAF304020
NK30/30A	NK30/30	TAF304030
NK32/20A	NK32/20	TAF324220
NK32/30A	NK32/30	TAF324230
NK35/20A	NK35/20	TAF354520
NK35/30A	NK35/30	TAF354530
NK37/20A	NK37/20	TAF374720
NK40/20A	NK40/20	TAF405020
NK40/30A	NK40/30	TAF405030
NK42/20A	NK42/20	TAF425220
NK42/30A	NK42/30	TAF425230
NK43/20A	NK43/20	TAF435320
NK43/30A	NK43/30	TAF435330
NK45/20A	NK45/20	TAF455520
NK45/30A	NK45/30	TAF455530
NK47/20A	NK47/20	TAF475720
NK47/30A	NK47/30	TAF475730
NK5/10TN	NK5/10TN	TAF51010
NK5/12TN	NK5/12TN	TAF51012
NK50/25A	NK50/25	TAF506225
NK50/35A	NK50/35	TAF506235
NK55/25A	NK55/25	TAF556825
NK55/35A	NK55/35	TAF556835
NK6/10TN	NK6/10TN	TAF61210
NK6/12TN	NK6/12TN	TAF61212

Koyo Part #	INA Part #	IKO Part #
NK60/25A	NK60/25	TAF607225
NK60/35A	NK60/35	TAF607235
NK65/25A	NK65/25	TAF657825
NK65/35A	NK65/35	TAF657835
NK68/25A	NK68/25	TAF688225
NK68/35A	NK68/35	TAF688235
NK7/10TN	NK7/10TN	TAF71410
NK7/12TN	NK7/12TN	TAF71412

Koyo Part #	INA Part #	IKO Part #
NKJ38/20A	NKI38/20	TAFI385320
NKJ38/30A	NKI38/30	TAFI385330
NKJ40/20A	NKI40/20	TAFI405520
NKJ40/30A	NKI40/30	TAFI405530
NKJ42/20A	NKI42/20	TAFI425720
NKJ42/30A	NKI42/30	TAFI425730
NKJ45/25A	NKI45/25	TAFI456225
NKJ45/35A	NKI45/35	TAFI456235

NK8/12	NK8/12TN	TAF81512
NK8/16	NK8/16TN	TAF81516
NK80/25A	NK80/25	TAF809525
NK80/35A	NK80/35	TAF809535
NK85/25A	NK85/25	TAF8510525
NK85/35A	NK85/35	TAF8510535
NK9/12	NK9/12TN	
NK90/25A	NK90/25	TAF9011025
NK90/35A	NK90/35	TAF9011035
NK95/36A	NK95/36	
NKJ10/16A	NKI10/16	TAFI102216
NKJ10/20A	NKI10/20	TAFI11010220
NKJ100/30A	NKI100/30	TAFI10013030
NKJ100/40A	NKI100/40	TAFI10013040
NKJ12/16A	NKI12/16	TAFI122416
NKJ12/20A	NKI12/20	TAFI122420
NKJ15/16A	NKI15/16	TAFI152716
NKJ15/20A	NKI15/20	TAFI152720
NKJ17/16A	NKI17/16	TAFI172916
NKJ17/20A	NKI17/20	TAFI172920
NKJ20/16A	NKI20/16	TAFI203216
NKJ20/20A	NKI20/20	TAFI203220
NKJ22/16A	NKI22/16	TAFI223416
NKJ22/20A	NKI22/20	TAFI223420
NKJ25/20A	NKI25/20	TAFI253820
NKJ25/30A	NKI25/30	TAFI253830
NKJ28/20A	NKI28/20	TAFI284220
NKJ28/30A	NKI28/30	TAFI284230
NKJ30/20A	NKI30/20	TAFI354020
NKJ30/30A	NKI30/30	TAFI354030
NKJ32/20A	NKI32/20	TAFI324720
NKJ35/20A	NKI35/20	TAFI355020
NKJ35/30A	NKI35/30	TAFI355030

NKJ5/16	NKI5/16TN	TAFI51516
NKJ50/25A	NKI50/25	TAFI506825
NKJ50/35A	NKI50/35	TAFI506835
NKJ55/25A	NKI55/25	TAFI557225
NKJ55/35A	NKI55/35	TAFI557235
NKJ6/16	NKI6/16TN	TAFI61616
NKJ60/25A	NKI60/25	TAFI608225
NKJ60/35A	NKI60/35	TAFI608235
NKJ65/25A	NKI65/25	
NKJ65/35A	NKI65/35	TAFI659035
NKJ7/12	NKI7/12TN	TAFI71712
NKJ7/16TN	NKI7/16TN	TAFI71716
NKJ70/25A	NKI70/25	TAFI709525
NKJ70/35A	NKI70/35	TAFI709535
NKJ75/25A	NKI75/25	TAFI7510525
NKJ75/35A	NKI75/35	TAFI7510535
NKJ80/25A	NKI80/25	TAFI8011025
NKJ80/35A	NKI80/35	TAFI8011035
NKJ85/36A	NKI85/36	TAFI8511036
NKJ9/12A	NKI9/12TN	TAFI91912
NKJ9/16	NKI9/16TN	TAFI91916
NKJ90/26A	NKI90/26	TAFI9012036
NKJS20A	NKIS20	
NKJS25A	NKIS25	
NKJS30A	NKIS30	
NKJS35A	NKIS35	
NKJS40A	NKIS40	
NKJS45A	NKIS45	
NKJS50A	NKIS50	
NKJS55A	NKIS55	
NKJS60A	NKIS60	
NKJS65A	NKIS65	
NKS20A	NKS20	

Koyo Part #	INA Part #	IKO Part #
NKS22A	NKS22	
NKS25A	NKS25	
NKS28A	NKS28	
NKS30A	NKS30	
NKS32A	NKS32	
NKS35A	NKS35	
NKS37A	NKS37	

Koyo Part #	INA Part #	IKO Part #
RNA4905A.2RS	RNA49052RS	RNA4905UU
RNA4905ARS	RNA4905RS	RNA4905U
RNA4906	RNA4906	RNA4906
RNA4906A.2RS	RNA49062RS	RNA4906UU
RNA4907	RNA4907	RNA4907
RNA4908	RNA4908	RNA4908
RNA4908A.2RS	RNA49082RS	RNA4908UU



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NKS40A	NKS40	
NKS45A	NKS45	
NKS50A	NKS50	
NKS55A	NKS55	
NKS60A	NKS60	
NKS65A	NKS65	
NKS70A	NKS70	
NKS75A	NKS75	
RNA22/6.2RS	RNA22/62RS	
RNA22/8.2RS	RNA22/82RS	
RNA2200.2RS	RNA22002RS	
RNA2203.2RS	RNA22032RS	
RNA2204.2RS	RNA22042RS	
RNA2205.2RS	RNA22052RS	
RNA4822	RNA4822	RNA4822
RNA4824	RNA4824	RNA4824
RNA4826	RNA4826	RNA4826
RNA4828	RNA4828	RNA4828
RNA4830A	RNA4830	RNA4830
RNA4832A	RNA4832	RNA4832
RNA49/22	RNA49/22	RNA49/22
RNA49/32	RNA49/32	RNA49/32
RNA4900	RNA4900	RNA4900
RNA4900A.2RS	RNA49002RS	RNA4900UU
RNA4900ARS	RNA4900RS	
RNA4901	RNA4901	RNA4901
RNA4901A.2RS	RNA49012RS	RNA4901UU
RNA4902	RNA4902	RNA4902
RNA4902A.2RS	RNA49022RS	RNA4902UU
RNA4903	RNA4903	RNA4903
RNA4903A.2RS	RNA49032RS	RNA4903UU
RNA4904	RNA4904	RNA4904
RNA4904A.2RS	RNA49042RS	RNA4904UU
RNA4905	RNA4905	RNA4905

RNA4909	RNA4909	RNA4909
RNA4909A.2RS	RNA49092RS	RNA4909UU
RNA4910	RNA4910	RNA4910
RNA4910A.2RS	RNA49102RS	RNA4910UU
RNA4912	RNA4912	RNA4912
RNA4913	RNA4913	RNA4913
RNA4914	RNA4914	RNA4914
RNA4915	RNA4915	RNA4915
RNA4916	RNA4916	RNA4916
RNA4917	RNA4917	RNA4917
RNA4918	RNA4918	RNA4918
RNA4920	RNA4920	RNA4920
RNA4922	RNA4922	RNA4922
RNA4924	RNA4924	RNA4924
RNA4926	RNA4926	RNA4926
RNA69/22	RNA69/22	RNA69/22
RNA69/28A	RNA69/28	RNA69/28
RNA69/32A	RNA69/32	RNA69/32
RNA6901A	RNA6901	RNA6901
RNA6902A	RNA6902	RNA6902
RNA6903A	RNA6903	RNA6903
RNA6904A	RNA6904	RNA6904
RNA6905A	RNA6905	RNA6905
RNA6906A	RNA6906	RNA6906
RNA6907A	RNA6907	RNA6907
RNA6908A	RNA6908	RNA6908
RNA6909A	RNA6909	RNA6909
RNA6910A	RNA6910	RNA6910
RNA6911A	RNA6911	RNA6911
RNA6912A	RNA6912	RNA6912
RNA6913A	RNA6913	RNA6913
RNA6914A	RNA6914	RNA6914
RNA6915A	RNA6915	RNA6915
RNA6916	RNA6916	RNA6916

Koyo Part #	INA Part #	IKO Part #
RNAO10X17X10		RNAF101710
RNAO16X24X13	RNAO16X24X13	RNAF162413
RNAO16X28X12	RNAO16X28X12	RNAF162812
RNAO20X28X13	RNAO20X28X13	RNAF202813
RNAO20X28X26	RNAO20X28X26	RNAFW202826
RNAO25X35X17	RNAO25X35X17	RNAF253517

Koyo Part #	INA Part #	IKO Part #
NATR6DZ		NAST6ZZUU
NATR8	NATR8	NAST8ZZUUR
NATR8DZ		NAST8ZZUU
NUKR35.2SK	NUKR35	NUCF16R
NUKR40.2SK	NUKR40	NUCF18R
NUKR47.2SK	NUKR47	NUCF20-1R

RNAO25X35X26	RNAO25X35X26	RNAFW253526
RNAO40X55X20	RNAO40X55X20	RNAF405520
RNAO40X55X40	RNAO40X55X40	RNAFW405540
RNAO6X13X8TN	RNAO6X13X8TN	RNAF6138N
KR16C.2RS.SK	KR16PPSK	CF6BUUR
KR16C.SK	KR16	CF6BR
KR19C.2RS.SK	KR19PP	CF8BUUR
KR19C.SK	KR19	CF8BR
KR22B.2RS.SK	KR22PP	CF10BUURM
KR22B.SK	KR22	CF10BRM
KR26B.2RS.SK	KR26PP	CF10-1BUURM
KR26B.SK	KR26	CF10-1BRM
KR30C.2RS.SK	KR30PP	CF12BUUR
KR30C.SK	KR30	CF12BR
KR32C.2RS.SK	KR322PP	CF12-1BUUR
KR32C.SK	KR32	CF12-1BR
KRV16.2RS.SK	KRV16PP	CF6VBUUR
KRV16.SK	KRV16	CF6VBR
KRV19.2RS.SK	KRV19PP	CF8VBUUR
KRV19.SK	KRV19	CF8VBR
KRV22.2RS.SK	KRV22PP	CF10VBUUR
KRV22.SK	KRV22	CF10VBR
KRV26.2RS.SK	KRV26PP	CF10-1VBUUR
KRV26.SK	KRV26	CF10-1VBR
KRV30.2RS.SK	KRV30PP	CF12VBUUR
KRV30.SK	KRV30	CF12VBR
KRV32.2RS.SK	KRV32PP	CF12-1VBUUR
KRV32.SK	KRV32	CF12-1VBR
NATR10	NATR10	NAST10ZZUUR
NATR10DZ		NAST10ZZUU
NATR12	NATR12	NAST12ZZUUR
NATR12DZ		NAST12ZZUU
NATR5	NATR5	NAST5ZZUUR
NATR5DZ		NAST5ZZUU
NATR6	NATR6	NAST6ZZUUR

NUKR52.2SK	NUKR52	NUCF20R
NUKR62.2SK	NUKR62	NUCF24R
NUKR72.2SK	NUKR72	NUCF24-1R
NUKR80.2SK	NUKR80	NUCF30R
NUKR90.2SK	NUKR90	NUCF30-2R
NUTR15	NUTR15	NURT15R
NUTR1542	NUTR1542	NURT15-1R
NUTR15DZ		NURT15
NUTR17	NUTR17	NURT17R
NUTR1747	NUTR1747	NURT17-1R
NUTR1747DZ		NURT17-1
NUTR17DZ		NURT17
NUTR20	NUTR20	NURT20R
NUTR2052	NUTR2052	NURT20-1R
NUTR2052DZ		NURT20-1
NUTR20DZ		NURT20
NUTR25	NUTR25	NURT25R
NUTR2562	NUTR2562	NURT25-1R
NUTR2562DZ		NURT25-1
NUTR25DZ		NURT25
NUTR30	NUTR30	NURT30R
NUTR3072	NUTR3072	NURT30-1R
NUTR30DZ		NURT30
NUTR35	NUTR35	NURT35R
NUTR3580	NUTR3580	NURT35-1R
NUTR3580DZ		NURT35-1
NUTR35DZ		NURT35
NUTR40	NUTR40	NURT40R
NUTR4090	NUTR4090	NURT40-1R
NUTR4090DZ		NURT40-1
NUTR40DZ		NURT40
NUTR45	NUTR45	NURT45R
NUTR45100	NUTR45100	NURT45-1
NUTR45DZ		NURT45
NUTR50	NUTR50	NURT50R

Koyo Part #	INA Part #	IKO Part #
NUTR50110	NUTR50110	NURT50-1
NUTR50110DZ		NURT50-1R
NUTR50DZ		NURT50
RSTO10	RSTO10	RNAST10R
RSTO12	RSTO12	RNAST12R

Koyo Part #	INA Part #	IKO Part #
AS0821	AS0821	AS0821
AS100135	AS100135	AS100135
AS1024	AS1024	AS1024
AS110145	AS110145	AS110145
AS120155	AS120155	



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RSTO17	RSTO17	RNAST17R
RSTO5A.TN		RNAST5R
RSTO6	RSTO6TN	RNAST6R
RSTO6DZ		RNAST6
RSTO8DZ		RNAST8
STO10	STO10	NAST10R
STO10DZ		NAST10
STO10ZZ		NAST10ZZ
STO12	STO12	NAST12R
STO12ZZ		NAST12ZZ
STO15	STO15	NAST15R
STO15ZZ		NAST15ZZ
STO15ZZ.DZ		NAST15ZZ
81102TVPB	81102TN	AZ15289
81103TVPB	81103TN	AZ17309
81104TVPB	81104TN	AZ203510
81105TVPB	81105TN	AZ254211
81106TVPB1	81106TN	AZ304711
81107TVPB	81107TN	AZ355212
81108TVPB	81108TN	AZ406013
81109TVPB	81109TN	AZ456514
81110TVPB	81110TN	AZ507014
81111TVPB	81111TN	AZ557816
81112TVPB	81112TN	AZ608517
81114TVPB	81114TN	AZ709518
81115LPB	81115TN	AZ7510019
81116LPB	81116TN	AZ8010519
81118LPB	81118TN	AZ9012022
81206TVPB	81206TN	AZ305216
81207TVPB	81207TN	AZ356218
81208TVP	81208TN	AZ406819
81211TVPB	81211TN	AZ559025
81212LPB	81212TN	AZ609526
81215LPB	81215TN	AZ7511027
81216LPB	81216TN	AZ8011528
AS0619	AS0619	AS0619

AS1226	AS1226	AS1226
AS130170	AS130170	
AS140180	AS140180	
AS150190	AS150190	
AS1528	AS1528	AS1528
AS160200	AS160200	
AS1730	AS1730	AS1730
AS2035	AS2035	AS2035
AS2542	AS2542	AS2542
AS3047	AS3047	AS3047
AS3552	AS3552	AS3552
AS4060	AS4060	AS4060
AS4565	AS4565	AS4565
AS5070	AS5070	AS5070
AS5578	AS5578	AS5578
AS6085	AS6085	AS6085
AS6590	AS6590	AS6590
AS7095	AS7095	AS7095
AS75100	AS75100	AS75100
AS80105	AS80105	AS80105
AS85110	AS85110	AS85110
AS90120	AS90120	AS90120
AXK0619TN	AXK0619TN	
AXK0821TN	AXK0821TN	
AXK100135	AXK100135	NTB100135
AXK1024	AXK1024	NTB1024
AXK1024	AXK1024	NTB1024
AXK110145	AXK110145	NTB110145
AXK120155	AXK120155	NTB120155
AXK1226A	AXK1226	NTB1226
AXK130170	AXK130170	
AXK140180	AXK140180	
AXK150190	AXK150190	
AXK1528	AXK1528	NTB1528
AXK160200	AXK160200	
AXK1730	AXK1730	NTB1730

Koyo Part #	INA Part #	IKO Part #
AXK2035	AXK2035	NTB2035
AXK2542	AXK2542	NTB2542
AXK3047	AXK3047	NTB3047
AXK3552	AXK3552	NTB3552

Koyo Part #	INA Part #	IKO Part #
K.81107TVPB	K81107TN	AZK35525
K.81108TVPB	K81108TN	AZK40606
K.81109TVPB	K81109TN	AZK45656
K.81110LPB	K81110TN	AZK50706

AXK4060	AXK4060	NTB40603	K.81110TVPB	K81110TN	
AXK4565A	AXK4565A	NTB4565	K.81111TVPB	K81111TN	AZK55786
AXK5070	AXK5070	NTB5070	K.81112TVPB	K81112TN	AZK60857.5
AXK5578	AXK5578	NTB5578	K.81113TVPB	K81113TN	AZK65907.5
AXK5578A	AXK5578	NTB5578	K.81114TVPB	K81114TN	AZK70957.5
AXK6085	AXK6085	NTB6085	K.81117LPB	K81117TN	AZK851107.5
AXK6590	AXK6590	NTB6590	K.81118LPB	K81118TN	AZK901209
AXK7095	AXK7095	NTB7095	K.81206TVPB	K81206TN	AZK30527.5
AXK75100	AXK75100	NTB75100	K.81207TVPB	K81207TN	AZK35627.5
AXK80105	AXK80105A	NTB80105	K.81208TVPB	K81208TN	AZK40689
AXK85110	AXK85110	NTB85110	K.81209TVPB	K81209TN	AZK45739
AXK90120A	AXK90120	NTB90120	K.81210TVPB	K81210TN	AZK507811
AXK90120B	AXK90120	NTB90120	LS1024	LS1024	
GS.81102	GS81102	GS1528	LS110145	LS110145	
GS.81103	GS81103	GS1730	LS1226	LS1226	
GS.81104	GS81104	GS2035	LS1528	LS1528	
GS.81105	GS81105	GS2542	LS1730	LS1730	
GS.81106	GS81106	GS3047	LS2542	LS2542	
GS.81107	GS81107	GS3552	LS3047	LS3047	
GS.81108	GS81108	GS4060	LS3552	LS3552	
GS.81109	GS81109	GS4565	LS4060	LS4060	
GS.81110	GS81110	GS5070	LS4565	LS4565	
GS.81111	GS81111	GS5578	LS5070	LS5070	
GS.81112	GS81112	GS6085	LS5578	LS5578	
GS.81113	GS81113	GS6590	LS6085	LS6085	
GS.81114	GS81114	GS7095	LS6590	LS6590	
GS.81115	GS81115	GS75100	LS7095	LS7095	
GS.81116	GS81116	GS80105	LS75100	LS75100	
GS.81117	GS81117	GS85110	WS.81102	WS81102	WS1528
GS.81118	GS81118	GS80120	WS.81103	WS81103	WS1730
GS.81206	GS81206	GS3052	WS.81104	WS81104	WS2035
GS.81209	GS81209	GS4573	WS.81105	WS81105	WS2542
K.81102TVPB	K81102TN	AZK15283.5	WS.81106	WS81106	WS3047
K.81103TVPB	K81103TN	AZK17303.5	WS.81107	WS81107	WS3552
K.81104TVPB	K81104TN	AZK20354.5	WS.81109	WS81109	WS4565
K.81105TVPB	K81105TN	AZK15283.5	WS.81110	WS81110	WS5070
K.81106TVP	K81106TN	AZK30475	WS.81111	WS81111	WS5578

Koyo Part #	INA Part #	IKO Part #
WS.81112	WS81112	WS6085
WS.81113	WS81113	WS6590
WS.81114	WS81114	WS7095



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WS.81115	WS81115	WS75100
WS.81116	WS81116	WS80105
WS.81117	WS81117	WS85110
WS.81118	WS81118	WS90120
WS.81206	WS81206	WS3052
WS.81208	WS81208	WS4068
WS.81209	WS81209	WS4573
WS.81210	WS81210	
WS.81211	WS81211	WS5590
WS.81212	WS81212	WS6095